

Invercargill Central

Tay Street & Dee Street Corner Invercargill

Lift Services Specification

- 1 x Schindler 5500 MRL, 2500kg Lift 1.2
- O 7 x Schindler 5500 MRL, 1275kg Lifts 1.1, 2.1 2.6
- 4 x Schindler 9300 E1.1 -1.2 & E2.1 2.2

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Approved For Issue 27/02/2020



Date: 8th July 2019 Issue: 01 – Specification Issue Reference: C001568



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17 Dec 2019

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BUILDING CONSENT NUMBER
2019/1381
Schindler

Date 8th July 2019 Contact Geoff Cotton. Company MPM Projects 6 Kirk Street Grey Lynn Auckland Project Name Schindler Reference Invercargill Central C001568 lss 1

Dear Geoff,

We are delighted to respond to your invitation to specify for lift services in this project. This opportunity allows Schindler to promote our products and services and to foster future partnerships with you.

We are pleased to submit the following specification for 8 new model 5500 passenger lifts and 4 new model 9300 escalators as described in the accompanying documents.

Our specification is based on Schindler products currently being successfully installed throughout New Zealand and includes Schindler's standard control features and special requirements as detailed in the Lift Services Specification, Sections 2 of this document.

We trust you find the detail presented satisfactory.

If you have any questions regarding this specification, please call me.

Yours sincerely Schindler Lifts NZ Ltd

Robin Manderson Sales Manager Southern Region Mobile: 021 658 838 E-mail: robin.manderson@schindler.com

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1. INTRODUCTION

As a leading global company that delivers innovative vertical transportation solutions through world-first technology and services, Schindler ensures that our clients and their assets live up to their reputations and values, long after installation/construction. This is achieved through the integration of technology and innovation that is future proofed and scalable as user preferences change.

We will challenge conventional thinking to deliver cutting-edge solutions that set new standards in excellence in service delivery, portfolio management and tenant satisfaction.

The strength of a trusted partnership

Schindler offers a trusted and reliable partner to deliver Service Excellence. Our open and honest style of communication is a key factor in securing a successful trusted partnership. This approach has proven to be the most effective way to minimise risk and provide certainty over product reliability and ongoing costs, which is vital for our mutual benefit.

What makes us different?

- We are the only major Elevator Company managed in New Zealand. We are not a satellite of Australia and decisions are made locally to reflect local client needs.
- Schindler Lifts NZ Ltd Design Engineering Office is located in Auckland all projects are designed for the New Zealand market.
- A Project Engineer will be assigned to each project; this will enhance client/contractor interaction and will be beneficial to the overall performance of the development.
- Schindler Lifts NZ Ltd Call Centres are operated by Schindler Staff located in New Zealand and NOT Australia.
- Our inventory of OEM and third party stock parts is the largest in the country.

We are CodeMark Certified

Schindler Lifts NZ Ltd has achieved **Code Mark Certification** which covers **Building Design**, **Building Materials and Methods of Construction** as required by NZ Building Code.

A CodeMark Certificate requires Schindler to provide declarations at the building consent and CCC application stages that the conditions of the certificate have been met. These declarations will provide a BCA the necessary assurance that it has met the requirements in s19(d) of the Act.

In terms of managing risk, this provides the greatest level of assurance for a BCA.

Where this assurance has been provided, Producer Statements are now irrelevant and therefore NOT required.

The confidence to innovate

We understand which component parts need our focus to ensure long term reliability. Therefore:

• Maintenance schedules are prepared for the New Zealand environment.

• Real-time breakdown information is available on-line.

We don't just talk green we are green

Schindler delivers green technology to the world every day and here in New Zealand we have installed vertical transport in 5 Star Green Star Certified rated buildings in recent years. Our Approved Ster Copy designed to save energy, increase performance and deliver maximum lifecycle outcomes – see section 5 of this proposal.

We are committed

Preparing this proposal as well as developing our construction and installation methodology, has given us a greater insight and understanding of the requirements, positioning Schindler to effectively deliver design feedback and proactively manage the Lift installation programme.

We welcome any opportunity to work in partnership to live greener, move faster and work smarter for generations to come.

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2. CLARIFICATIONS

- 2.1 GENERAL
 - The Schindler 5500MRL & 9300 Escalators has been successfully installed throughout New Zealand and we believe the Schindler products offered will suit the environment where the lifts are to be used.
 - Lifting beams required per Lift (NO Lifting Eyes)
 - Also included are the following:
 - o 12 month free maintenance period commencing from practical completion
 - shaft lighting
 - pit ladders
 - o pit moisture sensors
 - heat sensors

Additional details of the Schindler 5500MRL & 9300 Escalators Product Description is listed in Section 3, 4, 5 ,6 & 7.

- The passenger lifts hav been designed in accordance with Schindler CodeMark Certification:
 - **CodeMark Certification** requires Schindler to provide declarations at the building consent and CCC application stages that the conditions of the certificate have been met.
 - These declarations will provide a BCA the necessary assurance that it has met the requirements in s19(d) of the Act.
 - o In terms of managing risk, this provides the greatest level of assurance for a BCA.
 - NOTE, where this assurance has been provided, Producer Statements are now irrelevant and therefore **NOT required.**
 - Lifts also comply with EN81-20
- Note speed-wall construction is **not suitable** for lift guide rail fixing or landing door header supports UNLESS structural steel members are installed at required positions.
- Our tender specification is based on Schindler products currently being successfully installed internationally and throughout New Zealand and includes Schindler's special and standard control features plus special requirements as detailed.

Intellectual Property

- All intellectual property rights in the Equipment including in the control software, which enables routine operation, maintenance and repair of the Equipment ("Control Software") remain the property of Schindler.
- Schindler hereby grants a non-exclusive license to the Customer (and any contractor on behalf of the Customer) to use the Control Software to operate the Equipment for its own purposes, but the Customer shall have no other right or interest in the Control Software, and save only as required by law, no right to reproduce, reverse engineer or deal in the Control Software. This license can be assigned to a new owner of the Equipment.

> Specification

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 Our tender is based on the supply of our MRL Passenger Lift & Escalator instal admonich is offered strictly in accordance with our specification and Contract Conditions and does not include for any items, equipment or services which are not indicated or described in this proposal.

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2. CLARIFICATIONS (Continued)

2.2 SPECIFIC

Lif	t Shaft	
1	Lifts to fit into Lift Shaft internal sizes as Architects	To be clarified since Architectural drawings not available
	drawings	at time of submission
2	Machine type/arrangement	Machine room-less (MRL)
3	Shaft lighting, pit ladders, pit moisture sensors &	Included
	heat sensors	
4	Architraves	Schindler standard BOX frame included. Not full depth
Lif	t Car	
1	Speed	1,0m/s & 1.6 m/s offered.
2	Lift car interior size	See sections 3
3	Fire resistant features	Included. Landing & Car doors rated up to 120min.
4	Lift interior finishes	See Section 3.9
Sp	ecial Lift Controls	
1	Security provision in lift controller	Low level Swipe Card security by others
2	Fire service recall	Included where required by code
3	Earthquake operation	Included
4	Automatic evacuation to nearest floor in case of power failure	5500MRL - Excluded – Optional extra
5	Interface to 3rd party BMS (Building Management	Included
_	System	
6		Included
Co	ntractual	
1	Free maintenance period	12 Months included
2	Warranty	12 Months included. Extended warranties are available
		subject to Schindler being the sole Lift Maintenance
		provider during that period.
3	Equipment delivery to site from date of order	Approx. 18 weeks
4	Installation programme	Approx. 5-7 weeks per Lift – to be mutually agreed.



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Space

A new vision of space.

Thanks to a gearless and compact drive. Schindler 5500 allows more efficient use of shaft dimension as well as low headroom and pit depth requirements.

An appealing opportunity to put passengers at ease by providing them with a bigger car.

Enjoy this space.

Comfort

A new feeling of comfort.

With its low-noise operation system, easy interface a standard 'automatic evacuation' safety feature, Schindler 5500 gives you a perfectly safe, quiet and smooth ride.

Enjoy this comfort.

Design of design encoursed Site Consent

A new expression of design pproved Site Copy Created by an Italian designer, the new design of Schindler 5500 awakers the senses d For Issue The unique styling of the car interior creates a reassuring and modern atmosphere and which enhances the appeal of the whole building.

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Enjoy this design.

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3. LIFT SERVICES SPECIFICATION

3.1 OVERVIEW: SCHINDLER 5500MRL – LIFTS 1.1

2 nd Floor Level	TBA		2	1	X
1 st Floor Level	TBA	6000	1	G	×
		1500			PIT
Floors	R.L.	Floor to Floor	Stops	Floor Des.	LIFT 1.1
				Product Range	5500MRL
				Arrangement	MRL (Machine Room Less)
				No. of Lifts	1
				Unit No's	Lift 1.1
			C	WT Safety Gear	No
				Control	Simplex 1KS
				Capacity (kg)	1275kg
				Speed (m/s)	1.0m/s
			Maximum	Starts per Hour	180
			No. C	of Car Entrances	1
				No. Of Entrance	2
				No. Of Stops	2
			Main S	Stop / Floor Des.	Level 1 / G
				Car Width (mm)	1700
				Car Depth (mm)	1700
				Car Height (mm)	2500
			Height	to Ceiling (mm)	2400
				Door Type	2 piece centre opening
			0	oor Width (mm)	1100
			D	oor Height (mm)	
				Travel (mm)	
			Min. Single S	haft Width (mm)	2400-OULICII
			Min. S	haft Depth (mm)	
			Min	. Pit Depth (mm)	1500ULHUHUY
			Min.	Headroom (mm)	

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3. LIFT SERVICES SPECIFICATION

3.2 OVERVIEW: SCHINDLER 5500MRL – LIFT 2.1

2 nd Floor Level	TBA		2	1	X	
1 st Floor Level	TBA	5000	1	G	×	
		1500			PIT	
Floors	R.L.	Floor to Floor	Stops	Floor Des.	LIFT 2.1	
				Product Range	5500MRL	
				Arrangement	MRL (Machine Room Less)	
				No. of Lifts	1	
				Unit No's	Lift 2.1	
			c	WT Safety Gear	No	
				Control	Simplex 1KS	
				Capacity (kg)	1275kg	
				Speed (m/s)	1.0m/s	
			Maximum	Starts per Hour	180	
			No. C	of Car Entrances	1	
				No. Of Entrance	2	
				No. Of Stops	2	
			Main S	Stop / Floor Des.	Level 1 / G	
				Car Width (mm)	1700	
				Car Depth (mm)	1700	
				Car Height (mm)	2500	
			Height	to Ceiling (mm)	2400	
				Door Type	2 piece Refrest Gilly City	l.
			C	oor Width (mm)		
			D	oor Height (mm)		it
				Travel (mm)	5000 uthority	
			Min. Single S	haft Width (mm)	Approved Site Co	py
		Min. Shaft Depth (mm)			Approved For less	
			Min	. Pit Depth (mm)	27/02/2020	
			Min.	Headroom (mm)	4100	

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3. LIFT SERVICES SPECIFICATION

3.3 OVERVIEW: SCHINDLER 5500MRL - LIFTS 2.2 & 2.3

6 th Floor Level	TBA		6	5	×	
5 th Floor Level	TBA	3100	5	4	X	
4 th Floor Level	TBA	3100	4	3	×	
3 rd Floor Level	TBA	3100	3	2	×	
2 nd Floor Level	TBA	3300	2	1	×	
1 st Floor Level	TBA	6000	1	G	×	
		1500			PIT	
Floors	R.L.	Floor to Floor	Stops	Floor Des.	LIFTs 2.2 & 2.3,	
				Product Range	5500MRL	
				Arrangement	MRL (Machine Room Less)	
				No. of Lifts	2	
				Unit No's	Lift 2.2 & 2.3	
			C	WT Safety Gear	No	
				Control	Duplex 2KS	
				Capacity (kg)	1275kg	
				Speed (m/s)	1.6m/s	
			Maximum	Starts per Hour	180	
			No. C	of Car Entrances	1	
				No. Of Entrance	6	
				No. Of Stops	6	
			Main S	Stop / Floor Des.	Level 1 / G	
				Car Width (mm)	1700	
				Car Depth (mm)	Invercargill City	/
				Car Height (mm)	2500 Council	
			Height	to Ceiling (mm)	Building Conser	ht
				Door Type	2 piece centre apening	
			C	oor Width (mm)	Appfoved Site Co	yqq
			D	oor Height (mm)	2100	Ľ,
				Travel (mm)	Approseed For Issu	le
			Min. Single S	haft Width (mm)	4050 (allows for 150 trimmer	
			Common S	haft width (mm)	beam in between the lift shafts)	
			Min. S	haft Depth (mm)	2025	
			Min	. Pit Depth (mm)	1500	
			Min.	Headroom (mm)	4300	

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3. LIFT SERVICES SPECIFICATION

3.4 OVERVIEW: SCHINDLER 5500MRL – LIFTS, 2.4 & 2.5

6 th Floor Level	TBA		6	5	X	
5 th Floor Level	TBA	3100	5	4	X	
4 th Floor Level	TBA	3100	4	3	X	
3 rd Floor Level	TBA	3100	3	2	×	
2 nd Floor Level	TBA	3300	2	1	×	
1 st Floor Level	TBA	6000	1	G	×	
		1500			PIT	
Floors	R.L.	Floor to Floor	Stops	Floor Des.	LIFTs 2.4 & 2.5	
				Product Range	5500MRL	
				Arrangement	MRL (Machine Room Less)	
				No. of Lifts	2	
				Unit No's	Lifts 2.4 & 2.5	
			C	WT Safety Gear	No	
				Control	Duplex 2KS	
				Capacity (kg)	1275kg	
				Speed (m/s)	1.6m/s	
			Maximum	Starts per Hour	180	
			No. C	of Car Entrances	2	
				No. Of Entrance	6	
				No. Of Stops	6	
			Main S	Stop / Floor Des.	Level 1 / G	
				Car Width (mm)	1700	
				Car Depth (mm)	Intercargill City	1
				Car Height (mm)	250 Council	
			Height	to Ceiling (mm)	Building Conser	nt
				Door Type	2 piece centre opening	
			C	oor Width (mm)	Appfolled Site Co	py
			D	oor Height (mm)	2100	
				Travel (mm)	Approxeed For Issu	Ie
			Min. Single S	haft Width (mm)		
			Common S	haft width (mm)	4950 (allows for 150 trimmer beam in between the lift shafts)	
			Min. S	haft Depth (mm)	2220	
			Min	. Pit Depth (mm)	1500	
			Min.	Headroom (mm)	4300	
				. /		1

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3. LIFT SERVICES SPECIFICATION

3.5 OVERVIEW: SCHINDLER 5500MRL – LIFT & 2.6

2nd Floor Level	TBA			1	×	
M Floor Level	TBA	3000	2	М	×	
1st Floor Level	TBA	3000	1	G	×	
		1500			PIT	
Floors	R.L.	Floor to Floor	Stops	Floor Des.	LIFT & 2.6	
				Product Range	5500MRL	
				Arrangement	MRL (Machine Room Less)	
				No. of Lifts	1	
				Unit No's	Lift 2.6	
			C	CWT Safety Gear	No	
				Control	Simplex 1KS	
				Capacity (kg)	1275kg	
				Speed (m/s)	1.0m/s	
			Maximum	Starts per Hour	180	
			No. C	of Car Entrances	2	
				No. Of Entrance	2	
				No. Of Stops	2	
			Main	Stop / Floor Des.	Level 1 / G	
				Car Width (mm)	1700	
				Car Depth (mm)	1700	
				Car Height (mm)	2500	
			Height	to Ceiling (mm)	2400	
				Door Type	2 piece centre opening	
			[Door Width (mm)	1100	
			D	oor Height (mm)	In Matcargill City	
				Travel (mm)	6000 OUNCII	
			Min. Single S	haft Width (mm)		
			Min. S	haft Depth (mm)	2220Uthority	
			Min	. Pit Depth (mm)	Applement Site Cop	<i>y</i>
			Min.	Headroom (mm)	Approved For Issue	
					27/02/2020	

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3.6 OVERVIEW: SCHINDLER 5500MRL – GOODS LIFT 1.2

2 nd Floor Level TBA 2 1 1 st Floor Level TBA 6000 1 G Floor 1600 Floor Stops Floor Des. LIFT 1.2 Floor R.L. Floor Stops Floor Des. LIFT 1.2 No. of Lifts 1 1 1 1 CWT Safety Gear No 1 1 CWT Safety Gear No 1 1 Control Simplex 1KS 1 Capacity (kg) 2500kg Speed (m/s) 1.0m/s Maximum Starts per Hour 180 No. Of Car Entrances 1 No. Of Stops 2 Main Stop / Floor Des. Level 1 / G Car Width (mm) 1800 Car Depth (mm) 2500 Car Height (mm) 2600 Door Width (mm) 1300 Door Width (mm) 1300 Door Height (mm) 210h/vercargill C Travel (mm) 6000 Council Min. Single Shaft Width (mm) 278uilding Cons						
1** Floor Level TBA 6000 1 G PIT 1600 1600 PIT PIT PIT Floors R.L. Floor Stops Floor Des. LIFT 1.2 Product Range 5500MRL Arrangement MRL (Machine Room Less) No. of Lifts 1 Voit No's Lift 1.2 CWT Safety Gear No No Simplex 1KS Capacity (kg) 2500kg Speed (m/s) 1.0m/s Maximum Starts per Hour 180 No. Of Car Entrances 1 No. Of Stops 2 No. Of Stops 2 Main Stop / Floor Des. Level 1 / G Car Width (mm) 1800 2500 Car Height (mm) 2500 Car Height (mm) 2600 Door Type 4 piece centre opening Door Height (mm) 1300 Door Type 4 piece centre opening Door Height (mm) 1300	X	1	2		TBA	2 nd Floor Level
Income Incom Income Income	X	G	1	6000	TBA	1 st Floor Level
Floor Stops Floor Des. LIFT 1.2 Product Range 5500MRL Arrangement MRL (Machine Room Less) No. of Lifts 1 Unit No's Lift 1.2 CWT Safety Gear No Control Simplex 1KS Capacity (kg) 2500kg Speed (m/s) 1.0m/s Maximum Starts per Hour 180 No. Of Car Entrances 1 No. Of Stops 2 Main Stop / Floor Des. Level 1 / G Car Width (mm) 1800 Car Depth (mm) 2500 Car Height (mm) 2700 Height to Ceiling (mm) 2600 Door Type 4 piece centre opening Door Width (mm) 1300 Door Height (mm) 210th vercargill C Travel (mm) 6000 Council Min. Single Shaft Width (mm) 2760	PIT			1600		
Product Range5500MRLArrangementMRL (Machine Room Less)No. of Lifts1Unit No'sLift 1.2CWT Safety GearNoControlSimplex 1KSCapacity (kg)2500kgSpeed (m/s)1.0m/sMaximum Starts per Hour180No. Of Car Entrances1No. Of Stops2Main Stop / Floor Des.Level 1 / GCar Width (mm)1800Car Depth (mm)2500Car Height to Ceiling (mm)2600Door Type4 piece centre openingDoor Width (mm)1300Door Height (mm)210hvercargill CTravel (mm)27building ConsMin. Single Shaft Width (mm)27building Cons	LIFT 1.2	Floor Des.	Stops	Floor to Floor	R.L.	Floors
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No. Of Car Entrances1No. Of Entrance2No. Of Stops2Main Stop / Floor Des.Level 1 / GCar Width (mm)1800Car Depth (mm)2500Car Height (mm)2700Height to Ceiling (mm)2600Door Type4 piece centre openingDoor Width (mm)1300Door Height (mm)210Door Height (mm)210Door CouncilMin. Single Shaft Width (mm)Min. Single Shaft Width (mm)27	180	Starts per Hour	Maximum			
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Main Stop / Floor Des.Level 1 / GCar Width (mm)1800Car Depth (mm)2500Car Height (mm)2700Height to Ceiling (mm)2600Door Type4 piece centre openingDoor Width (mm)1300Door Height (mm)210Door Height (mm)210Travel (mm)6000CouncilMin. Single Shaft Width (mm)27	2	No. Of Stops				
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	27Building Conse	haft Width (mm)	Single S	Min.		
Min. Shaft Depth (mm) 3000 Authority	3000 Authority	haft Depth (mm)	Min. S			
Min. Pit Depth (mm) Approved Site (Approved Site C	. Pit Depth (mm)	Min.			
Min. Headroom (mm)	4300	Headroom (mm)	Min.			
27/02/2020	27/02/2020					

Building Division

BUILDING CONSENT NUMBER 2019/1381 Schindler

3.7 SCHINDLER 5500 SERIES MACHINE ROOM LESS

Schindler the Schindler 5500 represents the next generation of elevator in the. Its latest innovative traction media technology provides a smooth and quiet ride, high energy-efficiency and space saving. The Schindler 5500 Lifts is the modular passenger lift that takes configurability to a new level - it uniquely combines performance, flexibility and design, which makes it easy to fit to the requirements of commercial, low and mid-end commercial buildings. Solutions that suit you.

Characteristics		
Rated load	GQ (kg)	6302,500
Rated speed	VKN (m/s)	1. 03.0
Stops	ZE (-)	50
Travel height	HQ (m)	150

See attached brochure for supporting documentation/product information: **Schindler 5500 Brochure**



3.8 MAIN CHARATERISTICS LIFTS: SCHINDLER 5500MRL

Mains voltage:	400V	
Rated Load:	1000kg - 2500kg	
Number of passenger:	13 - 33 persons	
Building Type:	Commercial Shopping Centre	
Machine room location:	N/A	
Drive installation:	VVVF	
Machine:	Compact gearless traction machine	Invercargill City
Motor output:	As per rated load	Council Building Consent
Control system:	Schindler microcomputer control sy	stem Authority
Control type:	Simplex 1KS or Duplex 2KS	Approved Site Copy
Guide Shoes:	Slipper	Approved For Issue 27/02/2020

Building Division



3.9 INTERIOR FINISHES: SCHINDLER 5500MRL

Landing fixtures:	 Surface mounted – Stainless steel and stylish secure glass panel with Schindler push buttons Digital display car position indicators on all landing floors Pre-announcing of travel direction arrows 			
Landing door:	4 Panel centre opening - Hairline stainless steel			
Landing entrance frames:	Schindler standard box frames. Not full depth.			
Car door drive:	Wittur or Sematic			
Car door:	2 panel or 4 Panel centre opening - Hairline stainless steel			
Car Decoration:	Refer to 5500 brochure range Standard hairline stainless steel			
Front wall:	Standard hairline stainless steel			
Ceiling:	Stainless Steel			
Lighting:	Automatic lighting - style to be selected from standard range			
Car floor:	Custom or as per 5500 Range selections			
Hand rail:	Standard hairline stainless steel			



Building Division



4.0 SELECTED FEATURES & OPTIONS: SCHINDLER 5500MRL

> 1 x Car Operating Panels with vandal resistant push buttons

(Surface mounted, stainless steel & stylish secure glass panel with Schindler vandal resistant push buttons)

- Schindler standard digital display
- Car call buttons
- Door close button
- Door open button
- Alarm button in car
- Full load by pass
- Special service key switch

Control System

- Self-releveling (automatically configured according to elevation height)
- Automatic car fan (automatically times off)
- Automatic car light (automatically times off)
- Door protection device
- Elevator in the door zone indicator (in Controller)
- Emergency light in car
- Overload detection (with indicator & buzzer)
- Trip counter
- Test travel control
- Inspection service
- Self-diagnostic, self-testing
- Door Closing force limiter
- Pre opening doors
- Full load by-pass
- Anti- nuisance
- Automatic return to main floor from all floors
- Alarm horn on car
- Arrival gong
- Malfunction indicator on main floor
- Lamp in controller
- Fire rated landing doors
- Auto dial phone in car connection by others.

> Special Requirements Included

- 2 stop switches in the pit
- Pit & shaft lighting
- Pit moisture sensor connected to lift control
- Heat sensors at the top of lift shaft
- CCTV interface
- Security Interface in Controller, swipe card system by others

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Building Division



5. SCHINDLER 9300 ESCALATOR SERIES

The Schindler 9300AE escalator series can be adapted to your architectural concept. Whether it be a shopping mall, a multiplex cinema, museum, furniture or shoe store. Even a public transport facility like a train station. And a Schindler 9300AE can be adapted to virtually any design – from the aesthetic, to the timeless, to the highly customised and the sturdy for public spaces with rises of up to 20 meters.



Characteristics		
Rated load	GQ (kg)	9000 persons/hour
Rated speed	VKN (m/s)	0.450.65
Rise	Metre (m)	20m

See attached brochure for supporting documentation/product information: Schindler 9300 Planning Brochure

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Building Division



5.1 PRODUCT SPECIFICATION - Schindler 9300AE

5.1 MAIN CHARACTERISTICS

Model:	30 Degrees - 9300AE-Standard -10-ET-30-100- 2 x 2 Cleat step reversible Escalator for ascendi	M-R ng or descending.
Identification Number:	E1.1 & E1.2, E2.1 & E2.14	
Capacity:	9000 persons per hour (nominally)	
Number of units:	4	
Arrangement:	E1.1 & E1.2 Scissor, E2.1 & E2.2 Parallel	
Inclination Angle:	30 Degrees to the horizontal (to be confirmed)	
Rated speed:	0.5 m/s	
Vertical rise:	Units 1.1 and 1.2 All 6.00 m Units 2.1 and 2.2 All 5.00 m	
Step width:	1000mm	
Flat Run:	3 Flat steps are provided top & bottom	
Support points:	Required at each end	
Pit dimensions:	See Escalator Drawings	
Horizontal span:	See Escalator Drawings	
Machine:	A totally enclosed unit with the motor and gearbor common bedplate. The driving unit and controlle upper section of the truss	ox mounted on a r are housed in the
Motor Power:	7.5kW TBC	
Building Type:	Commercial – In door covered	
Service Life:	Minimum 100,000 hours at collective load Collective Load: 10 % at full load 60% at 25% load 30% at 50% load	Invercargill City Council Building Consent
Design Compliance:	Codemark and EN115:2008+A1	Authority Approved Site Copy

"Safety is a fundamental value of Schindler. It is implicit in our products and services and in the way we work. We do not compromise on the safety and health of those who work for our business" Environmental & Planning Services I.C.C. Document Received

17 Dec 2019

Building Division



5.2 TECHNICAL DATA

ELECTRICAL & POWER SUPPLY DATA

- Energy saving system (ECOLINE):
- Number of drives / location:
- Variable speed drive:
- Motor starting system:
- Motor:
- Motor Nominal current:
- Motor Starting current:
- Motor capacity:
- Protective system:
- Controller:
- Controller position:
- Power supply:
- Location of Power supply entry:
- Power supply frequency:
- Voltage for motor connection:
- Voltage for light connection:
- Voltage for safety circuit:
- Truss cable material:
- Operating panel (key switch):

BULUSTRADE – MATERIAL / COLOUR

- Balustrade:
- Balustrade height:
- Balustrade profile (material):
- Balustrade panels (material):
- Balustrade panels (colour):
- Balustrade panel joints:

SKIRTING / DECKING

- Profile:
- Skirting material:
- Skirting colour:
- Skirt deflector brushes:
- Inner decking material:
- Inner decking colour:
- Outer decking material:
- Outer decking colour:

Optional if required separate extra price Single drive, mounted at upper end Not required (optional) Star / Delta 3 phase squirrel cage induction motor 6 poles, 1000 rev/min 18A 36A 7.5 kW Electrical installation – IP21 Motor - IP 55 Microprocessor based - 'Miconic F' Within truss 3 Phase + Neutral + Earth At top of truss 50 Hz 400 V ±5% 240 V 110 V Standard Standard – upper & lower balustrade ends

Schindler design type 'E' 1000mm Standard hairline stainless steel Straight tempered 10mm glass without mullions Clear Standard - 90° to handrail/truss

Standard

Standard hairline stainless steel with Anti friction coating Standard hairline stainless steel 304 Invercargill City Included (mandatory as EN1 5:1995/A2:2004) Uncil Standard hairline stainless steel Standard hairline stainless steel Standard hairline stainless steel Standard hairline stainless steel Standard hairline stainless steel

Building Division

5.2 TECHNICAL DATA (CONTINUED)



TRUSS DESIGN

- Truss depth:
- Truss centre section height:
- Corrosion protection:
- Truss Colour:
- Soffit:
- Oil drain channels:
- Bottom end support:
- Top end support:
- Intermediate support:
- Sprinkler pipe in truss:

TRUSS CLADDING

- Lateral cladding:
- Lateral cladding material:
- Soffit cladding:
- Decorative cladding (by OTHERS):

STEP BAND / HANDRAIL

- Steps:
- Step colour:
- Step chain:
- Lubrication system:
- Handrail:
- Handrail colour:

COMBPLATES / FLOOR COVERS

- Comb material:
- Comb colour:
- Floor cover material:

LIGHTING

- Machine room lighting:
- Combplate lighting:
- Skirt Lighting:
- Balustrade lighting:
- Step gap lighting:

Close ribbed, die cast aluminium tread boards with Teflon anti-friction coating & anti-noise coating on underside Silver

Final finish supplied & installed by other trades

Standard

Standard automatic

Maximum load 20 kg/m²

Standard refer to drawings

Standard refer to drawings

Oil-tight welded soffit steel

Primed

Included Standard

Standard

Others

Others

Others

Not Required Not required

Grev

Continuous loop – Vulcanised rubber band with steel cord reinforcement and nylon cord gliding surface Black

Die cast Aluminium Natural anodised Ribbed Aluminium profiles

Included Not included (optional) Included (Spots) Not included (optional) Included (Spots) Invercargill City Council Building Consent Authority Approved Site Copy

Building Division



5.2 TECHNICAL DATA (CONTINUED)

OPERATING MODE / CONTROL

- Light barrier:
- Schindler 'Radar' entrance monitor:

Not included (optional)

Not Included (optional)

'Up - Down - Neutral 'key switch at both landings

58 dB A – measured 1 meter above combs

Included

Included

Included

Included

Included

- Directional indicators:
- Digital fault display in controller:
- Digital fault display in decking:
- Key switch:
- Operation run meter:
- Sound level:
- Reset button on controller:

SAFETY EQUIPMENT

- Safety brake
- Emergency stop button at both landings with cover
- Acoustic warning system
- Over speed monitor
- Broken step chain contact
- Electronically released electro-mechanical brake
- Stop switch and lighting to machine space
- Skirt Brushes
- Anti-reversal/stop device
- Step level monitor
- Handrail monitor
- Handrail entry contact
- Handrail entry guard
- Comb plates with contact
- Standard Safety Screens, Barriers and Deflectors as required
- Pit moisture sensor
- Step up thrust devices
- Floor cover with safety contact
- Drive chain monitor
- Tension carriage monitor
- PTC resistor protection
- Missing step monitor
- Change of travel direction monitor
- Zero position of key switch monitor
- Phase monitor

ADDITIONAL REQUIREMENTS

 For Alarms, Remote Monitoring and Sump Sensor functions Schindler will provide an interface to String and Sump Sensor functions Schindler will provide an interface to Authority

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Building Division



6. LIFTS ASSOCIATED WORKS

6.1 GENERAL DETAILS

- a To furnish, within thirty days (or sooner if required) from the date of acceptance of OTHERS this proposal, all required data including but not limited to, formal acceptance, necessary structural and architectural drawings, specifications, etc., to enable ordering to proceed and working drawings to be prepared.
- b Build in hitch beams into walls and / or floor slabs as may be required by the lift OTHERS Contractor.
- c All supports to be certified by a Registered Engineer to satisfy the requirements of OTHERS the nominated codes.
- d To furnish a clean dry lockable site storage area from the time the material is OTHERS received on site until completion of contract. Should there be not site storage when materials arrive and or the building structure be unable to accommodate such, offsite storage and secondary handling charges to site will be the responsibility of others. Any further additional insurance charges involved with offsite storage is the responsibility of others. Offsite storage in no way restricts payments. Inadequate storage will extend the installation programme.
- e Provide (at others expense) an adequate power supply to allow starting, testing and OTHERS adjustment of the machinery as required by the Lift Contractor.
- f Provide adequate protection against weather to all lift equipment during and on OTHERS completion of installation.
- g Provide permanent access to the lift machine controller unit and hoistway OTHERS equipment, all in accordance with the nominated codes.
- h To do all painting of non-lift materials or surfaces as required. OTHERS
- i To pay all fees, including those of the Registered Engineer, that may be required in OTHERS connection with the erection, preparation and certification of the structure in which the lift equipment is to be erected, including any general permit fees assessed on the basis of cost or type of structure, and certificate fees usually billed by any government agency directly to the owner, but excluding the initial fees for the installation or inspection of the lift equipment itself, which shall be paid by us.
- j To provide suitable arrangements for installing preassembled hoistway entrances OTHERS and car enclosure within the shaft including the use of a crane, adequate hoistway entrances of the shaft facilities and adequate access to permit entry of material into the lift shaft shaft of consent be provided.
- k Should an external alarm bell be required, provide wiring from the set provide site alarm location to a point adjacent to the lift hoistway or controller unit.
- I Provide 3-phase emergency stand-by power supply where specified or when the or of selection of the specified or of selection of the selectio
- m Adequate weatherproofing of lift landings lobbies as required by lift contractor and OTHERS lift certifier.

Building Division



6.2 SPECIFIC DETAILS

	DIT	
1.1	Vertical steel pit access ladder extending 1150mm above bottom F.F.L.	SCHINDLER
1.2	Waterproof pit with covered pit sump pump or drain outlet to comply with NZS 4332:1997.	OTHERS
1.3	Pit screens between multiple wells min. height 1800mm to comply with NZS 4332:1997 clause 11.4.	N/A
1.4	Three pin 15-amp power point in pit per lift.	OTHERS
1.5	Pit light with switch & to be positioned to lift engineer's instruction.	OTHERS
1.6	Pit floor to be designed & constructed to support loads as required.	OTHERS
2.1	LANDINGS Sill supports for landing doors set plumb one above the other and square with the lift well.	OTHERS
2.2	Supports for landing door headers as required. Note speed-wall construction is not suitable for landing door header supports.	OTHERS
2.3	Holes and cutouts for landing push boxes and indicators as required.	OTHERS
2.4	Rebates in all floor slabs to accommodate entrances.	OTHERS
2.5	Entrance architraves – Schindler standard box frames not full depth	SCHINDLER
2.6	Finishing up to Schindler box frame architraves after they have been installed.	OTHERS
2.7	Floor markings as required at each landing entrance.	SCHINDLER
2.8	Grouting in sills when requested by lift engineer.	OTHERS
2.9	Landing entrance temporary guards.	OTHERS

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SPECIFIC DETAILS - CONTINUED 6.2

LIFT SHAFT

31

3.1	A totally enclosed and legally constructed lift well and pit to the details and plumb dimensions as required.	OTHERS
3.2	Provide and fix all supports for lift guide rails including horizontal trimmer steels and vertical stanchions to suit loads shown on layout drawings. Max. Pitches: CarTBC CounterweightTBC	OTHERS
3.3	Scaffoldless installation for all lifts except the 2500kg unit which will required a scaffold deck to be supplied and installed by the builder to the lift contractors	OTHERS

- details. 3.4 Any cutting away, patching and making good up to lift equipment that becomes OTHERS necessary.
- 3.5 Lift well walls constructed from concrete block work shall be reinforced and fully OTHERS filled. Note speed-wall construction is not suitable for lift quide rail fixing supports.
- 3.6 Lifting beam/beams/eye in top of lift well. OTHERS Safe Working Loads (SWL) detailed on Layout drawings.
- Vent is to be designed, supplied and installed to suitably remove heat produced 3.7 OTHERS from lift equipment to prevent the temperature in the lift shaft exceeding 40 degrees Celsius and be free from palpable moisture. Further special consideration to control the temperature inside the lift shaft may be required when one or more of the lift shaft walls are glazed.
- 3.8 Lift well flushing as required including bevels to top edges of all recesses greater OTHERS than 150mm from the clear plumb well line.
- 3.9 Full height screens between shafts.

ELECTRICAL

- 4.1 A 400 volt 3 phase and neutral supply shall be run to the controller at top floor via OTHERS a motor rated circuit breaker per lift.
- 4.2 Heat sensor at top of shaft.

SCHINDLER

OTHERS

4.3 Shaft lighting with switches at top & bottom of shaft to be positioned er diar of the positioned er diar of the position of th engineer's instruction. Council Building Consentr 4.4 Moisture sensor in pit. Authority 4.5 Telephone line to lift controller on top floor. Approved Site Copy A secondary 230-volt single phase and neutral supply fed from separate OTHERS 4.6 distribution board shall be run to the controller at machine room Approved For Issue 27/02/2020

Building Division



7. ESCALATORS ASSOCIATED WORKS

7.1 SPECIFIC DETAILS – CONTINUED

1.1	Supporting structure at each end as shown required.	OTHERS
1.2	A motor rated 400 Volt 3 phase and neutral supply shall be run to the top of each escalator to supply each motor. Provide (at others expense) adequate power supply to allow testing and adjustment of the machinery as required by Schindler.	OTHERS
1.3	Finish work to floor openings and handrails around openings.	OTHERS
1.4	Temporary guards/enclosures around floor openings.	OTHERS
1.5	Finishing of Escalator Trusses and Cladding not to exceed 20 kilograms per sq. metre.	OTHERS
1.6	Provide temporary lifting beam. Point must be located over the centre of the end supports to Schindler's instructions.	SCHINDLER
1.7	During and on completion of the building construction phase the unit must be protected against dirt, water & general misuse etc.	OTHERS
1.8	Provide waterproof Escalator pit, with sump as required by Code and by Schindler.	OTHERS
1.9	Finished flooring shall be installed by others up to Escalator floor plates on completion of our installation works.	OTHERS
1.10	Adequate ventilation of working space shall be provided.	OTHERS
1.11	Clear unimpeded space below above & below Escalators to allow new units to be lowered for installation.	OTHERS
1.12	Provide and/or protect against damage together with any necessary floor covering or local strengthening of floors within the building to minimize damage to existing floor finish during transportation of the escalator unit.	OTHERS

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Building Consent Application

CodeMark Declaration

Title of Certificate: Schindler Lifts NZ Ltd

Lift design, specification, manufacture & installation

Certificate Number: AQ-070715-CMNZ (Rev 3)

Building design and building materials

A condition of the Schindler Lifts NZ Ltd CodeMark is that Schindler Lifts NZ Ltd provides a declaration that all conditions of the certificate have been met. This declaration relates to *building design and building materials*¹

Building name: Invercargill Central development

Address: Tay Street and Dee Street Corner, Invercargill

Legal description: Lot 2, DP 540342 (RT 905470)

Engaged by: HWCP Management Limited

Lift model: 5500

Schindler Lifts NZ Ltd confirms that the specification, design, manufacture and installation is in accordance with all conditions of the CodeMark Certificate of Conformity (AQ-070715-CMNZ)

The proposed Lift(s) covered by this declaration is described on the drawings referenced below, together with the Lift specifications and Lift maintenance schedule.

Drawing title:

e: Layout & Builders Work

Drawing number:

See list Below

Name: Karen Papps

Position: Managing Director

Signature:

K. A. BAKS.

Date: 21/06/2019

For & on behalf of Schindler Lifts NZ Ltd

CodeMark Certificate Holder

Schindler Lifts NZ Ltd 25 Nugent St, Auckland 1023 Ph: (09) 353 7500 Web: www.schindler.co.nz Email:nzc_sales.nz@schindler.com Invercargill City Council Building Consent Authority Approved Site Copy

Approved For Issue 27/02/2020

17 Dec 2019 List of Drawings for the lifts Building Division

Lift 1.1	Number CT02349	sheets 1 and 2
Lift 1.2	Number CT02350	sheets 1 and 2
Lift 2.1	Number CT02351	sheets 1 and 2
Lift 2.2	Number CT02352	sheets 1 and 2
Lift 2.3	Number CT02354	sheets 1 and 2
Lift 2.4 & 2.5	Number CT02355	sheets 1 and 2
Lift 2.6	Number CT02357	sheets 1 and 2



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2019/1381

Invercargill City

Council Building Consent

17 Dec 2019 Building Division

1 Maintenance and Inspection

Preventive Maintenance is the core Inspection focused on the essential.

Maintenance, the preventative side, has a greater emphasis. Maintenance is about safety, reliability, availability and long term value. This includes lubrication, topping up operating materials and consumables, checks, adjusting settings and cleaning the equipment.

The inspection, the testing side, is solely intended to check the unit. Inspection is about riding comfort, safety and overall condition. We correct any identified issue.

Preventive repairs ensure that the equipment maintains its value and remains free from faults.

The service technicians remain the most important factor. Using the relevant guidelines and checklists, combined with their experience and qualification, the service technicians know exactly what needs doing for all elevator equipment.

2 Specifications and Explanations

RAM / Long-term task (Reliability, Accessibility, Maintainability)

RAM / Trip counter / long term-tasks.

RAM-tasks are predefined tasks based on the newest engineering methods for determining the type and frequency of maintenance tasks. The calculations are based upon "Reliability/ Availability/Maintainability". Fairly often the results are long-term tasks. By long-term tasks we refer to periods or intervals prescribed in the RAM analysis based on number of trips or working hours, which generally exceed a one year period.

These tasks are usually described in the general or basic guidelines of a product and product type, and will also depend on local regulations as applicable.

There are two kinds of main tasks to be distinguished:

a) Function checks, tests, adjustments and measurements to be made within periods > one year, prescribed for the specified type of lift or component.

Examples: Safety gear tests; buffer tests; traction tests: locally prescribed tests

b) The prescribed replacement of components, depending on number of trips, age, or working hours. <u>Examples:</u> Replacement of accumulator batteries on PCBs for emergency light, communication devices and evacuation drives and controls.

3 Checklist MRL

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Build	ling Division Expert Plu	ıs -	E 2	Plu	is -	J 4	250	000)1								
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00	Contact customer	x	Ч	4 P	•		x	Ч	4 P	•		x	Ч	<i>€</i> ₽	•		
01	Car interior: calls, indicators, fixings	X	Х		Х		X	Х		Х		X	Х				
02	Car lighting and diffuser	х			Х		Х			Х		х					
03	Car door safety devices		Х	X				Х	Х				Х	X			
04	Levelling accuracy	X	v	X	v		X	v	X	Y		X		X			
05	Landing operating panels, optical, accoustical, fixings	X	X		X		X	X		X		X					
06	Date check Error-log LEDs check	X	X	x			X	X	x								
08	RAM / Trip counter / long-term tasks	X	X	X	х	х	X	X	X	х	х						
09	Hoistway lightning		Х		Х			Х				Х					
10	Manual / automatic passenger rescue device	х	х				х	х									
11	Alarm, communication systems with main power ON	- v	~				v	~					X				
12	Emergency car communication & lighting systems	X	X		v		X	X		v							
14	Floor level indicator. LED control	x	X		~		X	X		^							
15	Control booklet of maintenance visits and breakdowns	v					v					v					
15	according to local regulation	^					^					^					
16	Car relevelling / blocking / speed control devices		X					X									
17	Final limit switches Remote control devices for speed governor and machine		^					^									
18	brake		х					х									
19	Safety gear						Х	Х	Х	Х	Х						
20	Maintenance operating device / Short head room device		Х					X					Х				
21	Car top / maintenance platform, car blocking device	х	v		X		х	X		X							
22	Inspection: top of noistway travel limit Motor: frame, fan, bearing lubrication and level, fixings		^					^									
23	pulleys	х			х	х	х			х	х						
24	Gear: tachometer, backlash, thrust bearing, oil level	х		Х	Х	х	Х		Х	Х	Х						
25	Machine brake: mechanical and electrical, coupling rubbers, brake contact for EC and EA technologies		x	х	х			х	х	х		х		х			
26	Machine brake: mechanical and electrical counting rubbers		x	x	х			x	х	х		х	х	x			
27	Frequency converter	x			x		x										
28	Speed governor	X			X		Х	х		Х							
29	Car fixings	х		Х													
30	Car suspension fixations and slack-rope contact	х			х		Х	х		Х		-					
31	Car guide shoes & lubricators / rollers	X	v	X	X	X	X	v	v	X	X	v	v				
32	Hoistway doors mechanical and electrical	X	^	X	X	^	X	^	X	X	^	^	^				
34	Guide rail fixations	X		X	X		~		~	~							
35	Cwt: guide shoes and lubricators, frame, suspension /	х		x	х	х	х		х	х	х						
	Cwt: weight fixation / antijump / antitwist / buffer plate /	v			v		v			v							
36	compensation	×			X		×			X							
37	Speed governor rope	v		v			X										
38	Suspension ropes / STM condition and tension	X	x	X	x	x	X	x	x	x	x						
40	Car door safety contact		X	X	X	~	^	X	X	X	~						
41	Car door coupling to landing doors	х	х	х			х	х	х								
42	Hoistway pit safety set		Х		Х			Х		Х							
43	Hoistway / hoistway pit / oil collectors	х	v	v	X		Х	v	v	X					ore		1457
44	Speed governor rope tensioning pulley and contact	x	X	X	X	x		X	X	X					erc		ity
46	Safety gear / buffer plate / guide shoes				~	~	х	х	х	Х	х				C	ouncil	
47	Suspension ropes / STM position, pulleys and retainers	х			х		х			х				:. <u>.</u> .	منام	a Cons	ont
48	TSD stopper plate fixation and safety contact	Х					Х			Х	Х		Ľ	pull	an	y cons	ent
49	Compensation chain / rope and pulley	X		X	х	X									Au	thority	
50	Counterweight distance to buffer when car at top	X		x			¥						۸			d Cito	hanne
52	Load measuring device	Ê	X	~	х		Ê	х		х			A	μr	pve	u sile	Loby
53	Fireman's control, special options, automatic evacuation	х	х	1				х									
54	Feedback to customer	Х					Х					×Δ	nn	rov	/ed	Forls	sue
Copyr SCHII	ight $@$ 2014 INVENTIO AG All rights reserved. INVENTIO AG, Seestrasse 5 NDLER personnel or authorized SCHINDLER agents for purposes which are	5, CH-6 in the in	052 Her	giswil, ov f SCHINE	wns and DLER. A	retains Any repro	all copy oduction,	rights ai transla	nd other tion, cop	intellecto	ual prop storing i	erty righ n data p	nts in thi rocessir	is docum	nent. It s in in fo	hall only be used by	
withou	tt prior permission of Inventio AG is regarded as infringement and will be prose	ecuted.		5					L¢.			+		4	102		
	Function check			Æ	Measu	uremei	nt		William Street	Clea	aning		(9	Lubrica	ation	

Certificate of Conformity

This is to Certify

Schindler Lifts NZ Ltd – Lift design, specification, manufacture and installation

Product Description

The certificate covers the Design (engineering design and specification of lift componentry) and Construction (manufacture and installation) of the following Schindler lift models; 2400, 2500, 2600, 3300, 3300, 5500. It is referred to as the Schindler methodology.

Complies with the Building Code of New Zealand:

When designed, specified, manufactured, installed & maintained in accordance with the conditions of this certificate, Schindler Lifts NZ Ltd will comply with the following provisions of the NZ Building Code B1.3.1, B1.3.2, B1.3.3 (a, b, d, f, I, m, p, r), B1.3.4 (a, b, c, d, e), B2.3.1 (b), B2.3.2 (b) C5.6 (a)

D1.3.3 (a, b, c, k, n), D1.3.4 (a, b, c, d, e, f), D2.3.1 (a, b, c, d, e, f), D2.3.2 (a, b, c, d), D2.3.5 (a, b, c, d) D2.3.4 (a, b, c, d), D2.3.5 (a, b, c, d) F4.3.1, F4.3.4 (a, b, c, d, e), F8.3.1, F8.3.2 G8.3, G9.3.1 (a, b, c, d, e, f, g), G9.3.2 (a, b), G9.3.3

considering a building consent application (Building considering a building consent application of

Design, Building Materials) and also as evidence compliance with the building consent (Method

Construction) provided that all conditions of this

Certificate Holder Schindler Lifts NZ Ltd

certificate are met.

ę

has

engineer

an

where

OL

AS/NZS1170:2011

established that the existing building has sufficient structural integrity to withstand the building work associated with the installation of the lift. This certificate

install mechanical lifts in buildings that comply with

Schindler Lifts NZ Ltd design, manufacture, supply and

Product Use and Scope

CODEMARK

Subject to the following conditions and limitations:

- Hydraulic lift installations fall outside the scope of this certificate. ÷
- This certificate may only be used as a means of compliance when accompanied by a Schindler declaration that the specification, design, manufacture is in accordance with the Schindler methodology that is specified in this certificate. N
 - Prior to the Code Compliance Certificate being issued a Schindler declaration must be provided that installation is in ć
- accordance with the Schindler methodology that is specified in this certificate. Any changes to a lift specification must be approved by Schindler Lifts NZ Ltd and will then fall outside the scope of this certificate. 4
- Schindler Lifts NZ Ltd Naithen ance Schedule is to be submitted with the building consent application and incorporated in the compliance schedule. Ś Ö.

 - notification with Regulation 15 of the Building (Product Certification) Compliance with D1.3.40) or 1990 piles where the lift car has the following internal dimensions:

 Not less than 200 x 200mm 0R not less than 1400 x 1400mm.
 Not less than 200 x 200mm 0R not less than 1400 x 1400mm.

 Where the lift car when Sess than 14006mm the lift car has the be located on the adjacent wall. Schindler Lifts NZ 201 will out for surrecommity. Ltd the accordance with Regulation 15 of the Ruithing.
 - ing ved Regulations 2008 O ~ %
- Date of Issue argill برا consent ity Council С Authori Site 0 20

City

Сор

ssue

0

- ^{7th} July 2015
- AQ-070715-CMNZ (Rev 3 Jun 16) Certificate Number



www.asurequality.com

www.jas-anz.org/registe

CodeMark Certification AsureQuality, 11 Hull Road, Mt New Zealand Maunganui Body

AS-ANZ

AsureQuality

Web: www.schindler.com

Fax: (09) 353 7501 Ph: (09) 353 7500

Auckland 1023 25 Nugent St

17 Dec 2019

Building Division

"This certificate is issued by an independent certification body accreditation accreditation body accreditation body accreditation accreditation accreditation body accreditation body accreditation accreditation accreditation body accreditation accreditation





Building Consent Application

CodeMark Declaration

Title of Certificate:	Schindler Lifts NZ Ltd
	Escalator & Moving Walk design, specification, manufacture & installation
Certificate Number:	AQ—231116-CMNZ
Bu	ilding design and building materials
A condition of the Schindler L the certificate ha	ifts NZ Ltd CodeMark is that Schindler Lifts NZ Ltd provides a declaration that all conditions of ave been met. This declaration relates to <i>building design and building materials</i> ¹
Building name:	Invercargill Central Development
Address:	Tay Street and Dee Street Corner, Invercargill

Legal description: Lot 2, DP 540342 (RT 905470)

Engaged by: HWCP Management Limitd

Escalator model: 9300

Schindler Lifts NZ Ltd confirms that the specification, design, manufacture and installation is in accordance with all conditions of the CodeMark Certificate of Conformity (AQ-231116-CMNZ)

The proposed Escalator/Moving Walk(s) covered by this declaration is described on the drawings referenced below, together with the Escalator/Moving Walk specification and Escalator/Moving Walk maintenance schedule.

Drawing title:

: Layout & Builders Work

Drawing number:

CE02347 &CE02348

Name: Karen Papps

Position: Managing Director

Signature:

K. A. BAKS.

Date: 21/06/2019

For & on behalf of Schindler Lifts NZ Ltd

CodeMark Certificate Holder

Schindler Lifts NZ Ltd 25 Nugent St, Auckland 1023 Ph: (09) 353 7500 Web: www.schindler.co.nz Email:nzc_sales.nz@schindler.com Council Building Consent Authority Approved Site Copy

Invercargill City

Approved For Issue 27/02/2020

¹ Words in italics are given the meanings as per section 3 Building (Product Certification) Regulations 2008

Building Division

4+ Maintenance Checklist Type A **Escalators & Moving Walks**

3.2 3.3

3.4

3.8 3.9

42 5.2 5.3

5.5 5.6



Preparation Custome notify of shutof 2.2 2 Protective barrier, tension/drive station Observe OEM maintenance instructions set up Overall Length, Closed trade/Skirts/Cladding Balus Various guards and deflectors Lateral and soffit cladding Skirt brushes X X X 2.0 Balustrade 9.3 X Operating Devices/Lighting 10.6 Balustrade lighting 10.7 Skirt lighting X X 10.11 Truss lighting Step/Pallet Band/Tracks/Combplate Steps/pallets Step/pallet band X 6.8 X Handrail System Handrail 8.3 X Tension Station Warning Signs 2.3 Pictographs X Operating Devices/Lighting 10.3 Digital display X 10.4 Plain text display 10.8 Combplate lighting 10.9 Step/pallet gap lighting X X X X 10.12 Entrance monitoring system 10.13 Light barriers – guide bars/skirt panels X X 10.14 Direction indicators X 10.15 Key switch 10.15 Emergency stop X Pit Floor covers 5.7 remove Floor cover contact XX 5.9 Guard plate 10.2 Control cabinet remov remove 10.5 Maintenance operating panel х 10.10 Machine room lighting 10.16 Smoke detector 10.17 Water level gauge X X х 10.18 Heating fan X Cycle times of lubrication system 3 maintenance steps/8 pallets 76 X 6.2 remove 2.6 Escalator/moving walk pit Т X Step/Pallet Band/Tracks/Combplate Tangential guid 4.2 X Step/pallet guides Combplate 5.2 X X XX 5.5 Combplate contacts X Combs X 10 18 Combolate heating X Step/pallet chains X 6.3 X X 6.3 Retension step/pallet chain both sides X Step/pallet chain tension contacts Step/pallet entry Chain rollers 6.4 XX X 6.11 X Step bushings X X 6.14 Spring clips – step axles 6.15 Step/pallet level contact X XX X 6.16 Antistatic brushes - step/pallet band X 6.17 Step/pallet band monito X X Step upthrust contact¹ Skirt contacts х X Lubrication step X Handrail System Newel chains 8.5 X 8.14 Handrail monitor 8.16 Antistatic brushes X handrai X 9.2 Handrail entry contacts Overall Length, Open Step/Pallet Band/T Combolat Step guideway along skirt panels Pallet band 4.5 X 6.9 X 6.12 Step rollers X

Additional Information Not applicable for moving walks except S 9500-45

² Only for units older than S 9300 and S 9500-10/16 ³ Not applicable for escalators

Bold: mandatory for all units; other tasks unit-dependent

Q 409900 04

		10=1	13	Too	2	000
			13-5	600	1	
	Drive Station	464 4	8 - 8 -		¥ 8	
	Warning Signs	100000			-	-
2.3	Pictographs	X				
10.4	Diperating Devices/Lighting			_	r	_
10.4	Combolate lighting		×	-		
10.0	Step/pallet.gap.lighting		X	<u> </u>	~	
10.5	Entrance monitoring evetern		<u>.</u>	-		-
10.12	Light barriers guide bars/skirt nanels		X	<u> </u>	<u> </u>	
10.13	Direction indicators		A	-	(<u> </u>	
10.14	Key switch		X	-	2 - 3	
10.10	Emorranew sten	-210	×	-	-	
10.15	Dit	- 34 - 3	X			
57	Floor covers	T		mo	VA	
5.9	Floor cover contact	-11			¥6	<u> </u>
50	Guard plate		- A	ame		
10.2	Control cabinet	88		eme	Ve	_
26	Escalator/moving walk pit	08-08	1	1	Y	—
3.2	Motor air intakes				Ŷ	-
3.3	Oil level in gearbox	Y			*	
34	Transmission & motor bearings	•	v		-	
37	Service brake	20 20 - 0	÷	v		
3.9	Brake hand	v	^	÷	0 2.	
3.9	Brake contact	^	v	^		
3 10	Braking distance		m	6351	ire	
3.11	Safety brake		v			
3.13	Speed monitor	12 10 1	Ŷ	-	i i e	
3.14	Mechanical blocking device		÷	-	-	
3 15	Drive chain		^	v	-	v
3.16	Drive chain contact	-	~	^		^
7.3	Oil container of downdraft lubrication system	•	^	refil	-	
7.0	Oil level in automatic lubrication system	~		I	1	<u> </u>
7.5	Oil application brushes	Ŷ		¥		
0 12	Handrail drive chain	0	1	÷		
0.12	Oil collector for handrail drive chain	-	1 8	^	v	^
10.5	Maintenance operating panel	00 0 0	v		^	
10.10	Machine room lighting		÷	-		
10.10	Smoke detector		÷			
10.10	Heating fan	-	÷			
10.10	Machine room fan		Ŷ	-	Y	
10.13	GEU fan	000	÷	-	Ŷ	
10.20	Sten/Pallet Band/Tracks/Combol	late	<u>^</u>		•	_
42	Tangential guides	Y	1		1	<u> </u>
52	Step/pallet quides	Ŷ		Y		
53	Combplate	Ŷ	Y	Ŷ	-	
5.5	Combplate contacts	^	÷	^		-
56	Combs	Y	^		-	
10.10	Combolate beating	^	v		1	-
10.10 CC	Sten/nallet entry		×			-
C 15	Step/pallet level contact	~				- 200
6.10	Antietatic hnuches - eten/nallet hand		×		X	X
0.10	Step/pallet hand monitor	×				
4.4	Ptop untrouct contract	-	X	-	X	
4.4	Skirt contacts	1	X		1	-
4./	Uppdrail System		X			
0.5	Newel chains	- Distance		_		_
8.5	Newer Graffis	X		- 2007		

8.9	Handrail tension		X	x	5
8.10	Pressure belt/chain	24	×	×	
8.11	Friction wheel		In	Inro	araill City
9.2	Handrail entry contacts				arg in City
	Finish			0	o un oil
6.2	3 maintenance steps/8 pallets			install	JULICII
10.2	Control cabinet, tension/drive staion			install	
5.9	Guard plate, tension/drive station		ЗП	(nst il)	a Consent
5.7	Floor covers, tension/drive station		(close	
2.7	Visible surfaces (traces of work)			AII	thority
2.2	Protective barrier, tension/drive station	n		remove	therity
2.2	Customer		not	fy of sta	We ito Conv
			ת		

A	proved For Issue	
4	temperature university 2020	
50	Function check	
D-	Adjustment	
Ś	Cleaning	
×	Lubrication	

BUILDING CONSENT NUMBER

2019/1381

Building Division

4+ Maintenance Checklist Type B Escalators & Moving Walks

4-500-3-4



Í.	Preparation		10 	55 N	14	
2.2	Customer) n	otify	ofshu	shutoff	
2.2	Protective barrier, tension/drive station			set up		
	Observe OEM maintenance instructions					
	Overall Length, Closed	1				
	Balustrade/Skirts/Claddir	Ig				
2.4	Various guards and deflectors	X				
2.5	Lateral and soffit cladding	X				
4.8	Skirt brushes	X			02	
э.з	Balustrade	X		2 12	- 2	
	Operating Devices/Lightir	ng				
10.6	Balustrade lighting		х	42 - 198 1	- A	
10.7	Skirt lighting		х		N.	
10.11	Truss lighting		х		Û	
	Step/Pallet Band/Tracks/Com	bplate	8	347 - 210 943 - 389		
5.8	Step/pallet band		X		4	
	Handrail System					
3.3	Handrail		X	s	20	
	Tension Station		8	55 (S	24	
	Warning Signs					
2.3	Pictographs	x				
	Operating Devices/Lightin	ng				
10.3	Digital display	Ĭ	X			
10.4	Plain text display		X			
10.8	Combolate lighting		x	2 - A	1	
10.9	Step/pallet gap lighting	0	x	5 (c.	0	
10.12	Entrance monitoring system		x	<u></u>		
10.13	Light barriers – guide bars/skirt panels		x		1	
10.14	Direction indicators	Ű.	x		0	
10.15	Kev switch	-	x		Ĩ	
10 15	Emergency stop		x	\$ <u></u> \$	- Q	
10.10	Pit	0	<u>^</u>	50 SA	10	
57	Floor cover	6	r	emove		
59	Guard plate	10	r	emove		
10.2	Control cabinet	2	r	emove		
10.2	Control cabinet	Y	<u> </u>			
10.5	Maintenance operating panel		v		-	
10 10	Machine room lighting	(÷	0 <u>0</u>	8	
6.2	3 maintenance steps/8 pallets		L	emove	1	
26	Escalator/moving walk pit	-	Ē		/	
	Sten/Pallet Band/Tracks/Com	bniate				
53	Combolate		2	řŤ	ľ	
5.0	Lateral quides of combalatt	^	X		. 0.0	
5.6	Combs	v				
 	Ston/pallot chains	*	_			
5.0 C C	Step/pallet entry				2	
5.0	Quide words	×	-		-	
5.10	Guide pads	X		1	14	
	Hanuran System	10,000	_		-	
5.5	Newer Charits	X	L			
	Overall Length, Open	halata				
	Step/Pallet Bandy Fracks/Com	uplate	_			
4.3	I FACKS OF STEP FOILERS		1		\$	

		de:	6	B	114
6	Drive Cention			Ca 1 - 24	
-	Warning Signs				
23	Pictographs	T Y		Ť	_
2.0	Operating Devices/Lighting	•			
10.4	Plain text display	1	¥		
10.8	Combolate lighting		Ŷ	1	-
10.9	Step/hallet gan lighting	30422 - 3	X		
10.12	Entrance monitoring system		x		6
10.12	Light barriers – guide bars/skirt panels		x		
10.14	Direction indicators		X		
10.15	Key switch		x		
10.15	Emergency stop	288 - 3	x		
	Pit	67.6			
5.7	Floor covers	110	re	move	
5.9	Guard plate		re	move	
10.2	Control cabinet		re	move	
10.2	Control cabinet	X		X	
2.6	Escalator/moving walk pit			X	
3.10	Braking distance	-	m	easure	
3.12	Rods of all brakes				X
3.15	Drive chain				X
7.3	Oil container of downdraft lubrication system		4 6	refill	
7.4	Oil level in automatic lubrication system	x			
8.12	Handrail drive chain				x
10.5	Maintenance operating panel		X		
10.10	Machine room lighting		X		
10.19	Machine room fan		X		
10.20	GFU fan	11	X	1 1	
08	Step/Pallet Band/Tracks/Combpl	ate			
5.3	Combplate	x	\mathbf{x}^2		
5.4	Lateral guides of combplate	- ABA - 1		X	X
5.6	Combs	X	33	X	X
6.6	Step/pallet entry	x			
-	Handrail System	1000	а. на 1. на		
8.5	Newel chains	x			
2	Finish				
6.2	3 maintenance steps/8 pallets		ji	nstall	
102	Control cabinet, tension/drive staion		ji	nstall	
5.9	Guard plate, tension/drive station		i	nstall	
5.7	Floor covers, tension/drive station			lose	_
2.7	Visible surfaces (traces of work)]	X	
2.2	Protective barrier, tension/drive station	990	re	move	
2.2	Customer	l n	otify	of start-	up

А	Invercargill City Council Building Conser Authority opproved Site Co	/ nt opy
Ар	proved For Issu 27/02/2020 (ev to Task Symbols Inspection of noise/	əı
1	Europerature/vibration	
<u>B</u>	Adjustment]
E	Cleaning	
a start	Lubrication	

Additional Information

¹ Not applicable for moving walks ² Only for units older than S 9300 and S 9500-10/15 **Bold: mandatory for all units;** other tasks unit-dependent

2019/1381

Building Division

4+ Maintenance Checklist Type C Escalators & Moving Walks



2019/1381



4-50 C-3-4

		-7	Date	Los Xer	143
	Preparation	10			1
2.2	Customer	r	notify	of shu	toff
2.2	Protective barrier, tension/drive station		9	set up	
	Observe OEM maintenance instructions				
	Overall Length, Closed				
	Balustrade/Skirts/Cladding				
2.4	Various guards and deflectors	X			
2.5	Lateral and soffit cladding	X			1
4.8	Skirt brushes	X			
9.3	Balustrade	X			- 50-
	Operating Devices/Lighting				
10.6	Balustrade lighting	10	X		
10.7	Skirt lighting	D.	х		
10.11	Truss lighting		X	() () () () () () () () () ()	Ũ
-	Step/Pallet Band/Tracks/Combplat	е	19	347 - 253 345 - 389	
6.8	Step/pallet band	-	X		4
	Handrail System				
8.3	Handrail	1	X	S - 5	20
	Tension Station	100		56 - 75 -	124
	Warning Signs				
2.3	Pictographs	X		i — 1	1
	Operating Devices/Lighting	11			
10.3	Digital display	1	X		0
10.4	Plain text display		X		
10.8	Combplate lighting	12	X		-
10.9	Step/pallet gap lighting	1	X	15 - C	10
10.12	Entrance monitoring system	Ĩ.	x		1
10.13	Light barriers – guide bars/skirt panels	0	X		1
10.14	Direction indicators		X		
10.15	Key switch		X		
10.15	Emergency stop	8	X	s - 9	- 20
-	Pit	- 66		547 BBC	04
5.7	Floor cover	1	r	emove	
5.9	Guard plate	1	r	emove	
10.2	Control cabinet		r	emove	
10.5	Maintenance operating panel		X		1
10.10	Machine room lighting	1	x	9 95 -	20
6.2	3 maintenance steps/8 pallets	1	r	emove	- 20
2.6	Escalator/moving walk pit	1		X	
	Step/Pallet Band/Tracks/Combplat	e			
5.3	Combplate	X	y ²		1
56	Combs	x	C.		
6.3	Step/pallet chains		-		X
6.6	Step/pallet entry	¥			-
	Handrail System	1			-
85	Newel chains	¥		Y	
86	Handrail guide profiles	Ŷ		Ŷ	-
8.15	Handrail displacement contacts ²	-		^	-
0.10		1			
	Handrail System				
81	Insides of handrails	v	<u> </u>		1
0.4	Landrai cunnart rallare	^ V		^	

	Drive Station	2763 C	• · ·	<u> </u>	
	Warning Signs	-	_		_
2.3	Pictographs	X			
	Operating Devices/Lighting				-
10.4	Plain text display		X		
10.8	Combplate lighting		X		
10.9	Step/pallet gap lighting		X		
10.12	Entrance monitoring system		X		
10.13	Light barriers – guide bars/skirt panels	30.02	X		
10.14	Direction indicators	- 350	X		
10.15	Key switch		X		
10.15	Emergency stop		X		
	Pit	650	20 - 22 2005		
5.7	Floor covers	1.1	n	emove	
5.9	Guard plate	010	n	emove	
102	Control cabinet	100	r	emove	_
2.6	Escalator/moving walk pit	500	s	X	
3.10	Braking distance	2362	m	easure	
3.15	Drive chain				X
7.3	Oil container of downdraft lubrication system		81	refill	
7.4	Oil level in automatic lubrication system	X			
8.12	Handrail drive chain				X
10.5	Maintenance operating panel	000	X		
10.10	Machine room lighting		X		
10.19	Machine room fan	1	X		
10.20	GFU fan		X		
	Step/Pallet Band/Tracks/Combp	olate	00 00-0		
5.3	Combplate	X	X ²		
5.6	Combs	X			
6.6	Step/pallet entry	X			
0	Handrail System				
8.5	Newel chains	X	1	X	
8.6	Handrail guide profiles	X		X	
8.7	Handrail deflection roller assemblies	X		X	
	Finish				-
6.2	3 maintenance steps/8 pallets	6846	1	nstall	
10.2	Control cabinet, tension/drive staion	094	1	nstall	
5.9	Guard plate, tension/drive station	11	3	nstall	
5.7	Floor covers, tension/drive station			close	
2.7	Visible surfaces (traces of work)			X	
2.2	Protective barrier, tension/drive station		r	emove	
2.2	Customer	n	otify	of start-	up

In	vercargill City	
	Council	
Bu	ilding Consent	
	Authority	
Арр	roved Site Copy	/
Appro 2	ved For Issue 7/02/2020	
4	Inspection of noise/ temperature/vibration	
50	Function check	
1000		
D	Adjustment	

Lubrication

×

Additional Information

¹ Not applicable for moving walks ² Only for units older than S 9300 and S 9500-10/15 **Bold: mandatory for all units;** other tasks unit-dependent

Building Division

4+ Maintenance Checklist Type D Escalators & Moving Walks



1 0 0 3 4

		-7	District	11 - Y.	14.3
	Preparation		6 - 16 10 - 16		50
2.2	Customer	i n	notify of shute		
2.2	Protective barrier, tension/drive station		set up		
	Observe OEM maintenance instructions				
_	Overall Length, Closed				
	Balustrade/Skirts/Cladding]			
2.4	Various guards and deflectors	X			1
2.5	Lateral and soffit cladding	X			1
4.8	Skirt brushes	X			92
9.3	Balustrade	X			2
	Operating Devices/Lighting	3			
10.6	Balustrade lighting		x		1
10.7	Skirt lighting	5	x		1
10.11	Truss lighting		X		Ũ
	Step/Pallet Band/Tracks/Comb	plate		210	
6.8	Step/pallet band		X		Ú
	Handrail System				
8.3	Handrail	1 - 2	X	20	24
1	Tension Station	1000	a - 10	4	28
	Warning Signs				_
2.3	Pictographs	X		Ĩ	1
	Operating Devices/Lighting	1			2
10.3	Digital display		x	Ĭ.	Ľ
10.4	Plain text display	-	x		
10.8	Combolate lighting	3 8	x	5	1
10.9	Step/pallet gan lighting	2 1	x	60	0
10.12	Entrance monitoring system		Ŷ		-
10.12	Light harriers – guide hars/skirt nanels	-	Ŷ	-	1
10.10	Direction indicators	× 7	Ŷ	-	12
10.14	Key switch	3 3	Û	2	2
10.15	Emergency stop	2.2	÷		4
10.15	Dit		^	100	302
E 7	Floor cover	- (°	rer	nove	
5.7	Guard plate	-	ror	0000	
10.0	Control cohinet	-	ren	nove	
102	Maintenance encrating nanel	-		love	1
10.0	Machine room lighting	2 3	^ 	24	
10.10	2 maintenance stone /0 nallets		X		
0.2	o maintendrice steps/o parlets	-	rer	iove	-
2.0	Escalator/110 Villy Walk pit	nloto		X	
	Step/Hallet Barlu/ i racks/Comb	piate	21		
5.3	Complete	×	×-	-	-
5.6	Comps Stan wallet shains	X		1	1000
6.3	Step/panet chains				X
6.6	step/panet entry	X		1	
	Handrail System			-1	

1	Drive Station	85-85 - S	3 - 3 ⁵	b	
	Warning Signs				
2.3	Pictographs	X			
	Operating Devices/Lighting	1			
10.4	Plain text display		X		
10.8	Combplate lighting		X		
10.9	Step/pallet gap lighting		X		
10.12	Entrance monitoring system		X		
10.13	Light barriers – guide bars/skirt panels	30.02	X		
10.14	Direction indicators	- 22	X		
10.15	Key switch		x		
10.15	Emergency stop		X		
,	Pit	020	50 - 53. 	50	12 1
5.7	Floor covers		re	move	
5.9	Guard plate		remove		
102	Control cabinet		re	move	
2.6	Escalator/moving walk pit	200		X	1
3.10	Braking distance	- 1925	me	asure	
3.15	Drive chain				X
7.3	Oil container of downdraft lubrication system			refill	12
7.4	Oil level in automatic lubrication system	X			1
8.12	Handrail drive chain				X
10.5	Maintenance operating panel		x		
10.10	Machine room lighting		X		
10.19	Machine room fan	100	X		
10.20	GFU fan		x		
	Step/Pallet Band/Tracks/Comb	plate			
5.3	Combplate	X	x ²		
5.6	Combs	X			
6.6	Step/pallet entry	x			
1	Handrail System				
8.5	Newel chains	X			
	Finish				10
6.2	3 maintenance steps/8 pallets		install		
10.2	Control cabinet, tension/drive staion		ir	nstall	
5.9	Guard plate, tension/drive station		ir	nstall	
5.7	Floor covers, tension/drive station	1383	C	lose	
2.7	Visible surfaces (traces of work)			X	1
2.2	Protective barrier, tension/drive station		re	move	
2.2	Customer	l n	notify of start-up		



Additional Information

¹ Not applicable for moving walks ² Only for units older than S 9300 and S 9500-10/15 **Bold: mandatory for all units;** other tasks unit-dependent

2019/1381

Building Division

4+ Maintenance Checklist Type E Escalators & Moving Walks

Schindler

			201	
	Preparation			
2.2	Customer	notify o	notify of shutoff set up	
2.2	Protective barrier, tension/drive station	set		
	Observe OEM maintenance instruction			
	Tension Station			
	Warning Signs			
2.3	Pictographs	X	Ú.	
	Operating Devices/Lightin	ng		
10.3	Digital display		X	
10.4	Plain text display	100	×	
10.8	Combplate lighting		X	
10.9	Step/pallet gap lighting		X	
10.12	Entrance monitoring system		X	
10.13	Light barriers – guide bars/skirt panels		X	
10.14	Direction indicators		X	
10.15	Key switch		X	
10.15	Emergency stop	1252	X	
	Step/Pallet Band/Tracks/Com	bplate		
5.3	Combplate	X	1	
5.6	Combs	X		
6.6	Step/pallet entry	X	į.	
	Handrail System	0.25	2	
8.5	Newel chains	X	4	
	Overall Length, Close	d		
	Balustrade/Skirts/Claddir	ng		
2.4	Various guards and deflectors	X	1	
2.5	Lateral and soffit cladding	X		
4.8	Skirt brushes	X		
9.3	Balustrade	X	4	
	Operating Devices/Lighti	ng		
10.6	Balustrade lighting	4920 	X	
10.7	Skirt lighting		X	
10.11	Truss lighting		X	
non chùi h-	Step/Pallet Band/Tracks/Com	bplate	0	
6.8	Step/pallet band		X	
	Handrail System			
8.3	Handrail		X	

		1.	your -
	Drive Station		11
	Warning Signs	141	D-11-
2.3	Pictographs	X	
	Operating Devices/Lighting		
10.4	Plain text display		X
10.8	Combplate lighting		X
10.9	Step/pallet gap lighting		X
10.12	Entrance monitoring system		X
10.13	Light barriers – guide bars/skirt panels		X
10.14	Direction indicators		X
10.15	Key switch		X
10.15	Emergency stop		X
·	Step/Pallet Band/Tracks/Combp	olate	
5.3	Combplate	X	
5.6	Combs	X	
6.6	Step/pallet entry	X	
	Handrail System		
8.5	Newel chains	X	5
	Finish		367
2.2	Protective barrier, tension/drive station	ren	nove
2.2	Customer	notify o	f start-up

Invercargill City
Council
Building Consent
Authority
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Approved For Issue

8 -1	Inspection of noise/ temperature/vibration	
90	Function check	
Ø	Adjustment	
3	Cleaning	
-	Lubrication	

Additional Information

¹ Not applicable for moving walks ² Only for units older than S 9300 and S 9500-10/15 Bold: mandatory for all units; other tasks unit-dependent

2019/1381

Building Division

Maintenance Checklist Type ABC Escalators & Moving Walks



2019/1381



			50	0-	I	×
11	Preparation	1 22				
2.2	Protective barrier, tension/drive station	no	notify of shutdown set un			wn
	Observe OEM maintenance instructions					1
	Overall Length, Closed					
2.4	Various guards and deflectors	X		-		
2.5	Lateral and soffit cladding	×				
4.8	Skirt brushes	×				
9.3	Distracte Operating Devices/Lighting	×		55 A		a a
10.6	Balustrade lighting		x			8 6
10.7	Skirt lighting	5	x			8 8
10.11	Truss lighting Sten/Pallet Band/Tracks/Combola	to l	X	d - 6	X	<u>e a</u>
6.7	Steps/pallets	X			-	
6.8	Step/pallet band		x			
0.0	Handrail System	- 10- 10			-	
8.3	Tension Station	-	X	0a - 3	2	10 8
	Warning Signs					_
2.3	Pictographs	x				2_3
10.3	Uperating Devices/Lighting	1	v	-	_	
10.5	Plain text display		×			
10.8	Combplate lighting		x			
10.9	Step/pallet gap lighting		X		X	-
10.12	Light harriers – guide hars/skirt panels		×	a – a		 .
10.14	Direction indicators	8 8	x	8		8 8
10.15	Key switch	100	X			2_3
10.15	Emergency stop	0.0	X	<u>(</u> 1 - 2		
5.7	Floor covers	Ĩ.	ſ	emov	/e	
5.8	Floor cover contact	j i	x	x		
5.9	Guard plate		1	emov	/e	
10.2	Control cabinet			emuv I	re v	
10.5	Maintenance operating panel		x	8 8	•	8 6
10.10	Machine room lighting	5755 1111	x			88
10.16	Smoke detector	0 - 2	X	ci - c		<u></u>
10.18	Heating fan	0.0	x	1		
7.6	Cycle times of lubrication system ²	0.1	x			
6.2	3 maintenance steps/8 pallets		P	emo\ I	/e	
2.0	Step/Pallet Band/Tracks/Combpla	te		0a 2	X	<u>a a</u>
4.2	Tangential guides	X				8 6
5.2	Step/pallet guides	×		x	-	2_3
5.3	Lateral guides of combulate	×	×	X	v	v
5.5	Combplate contacts		x			
5.6	Combs	×			x	x
10.18	Combplate heating Step/nallet chains	2000	x			
6.3	Retension step/pallet chain both sides	~	x	X		<u>×</u>
6.4	Step/pallet chain tension contacts	1	х	х	5	8
6.6	Step/pallet entry	×		8		<u>2 8</u>
6.11	Chain rollers	×				<u> </u>
6.13	Step bushings	X				x
6.14	Spring clips – step axles	×				
6.15	Antistatic hrushes – sten/nallet hand		X	<u>, -</u>	×	×
6.17	Step/pallet band monitor		x	a (×	<u> </u>
4.4	Step upthrust contact ¹		x			
4.7	Skirt contacts		X	6		<u>1 - 1</u>
1.1	Handrail System	1907 • 10		<u> </u>	<u> </u>	
8.5	Newel chains	X		J j	x	1
8.6	Handrail guide profiles	×			×	
8 15	Handrail displacement contacts ²	×	~	0 - C	-	
8.16	Antistatic brushes – handrail	×		а з		
9.2	Handrail entry contacts		x	X		
	Sten/Pallet Band/Tracks/Combule	te				1
4.3	Tracks of step rollers ¹				x	
4.5	Step guideway along skirt panels			i i	x	x
6.9	Pallet band	×				-
10,12	Ribbed radiator	×	×	<u>а</u> (
	Handrail System	19 V		dis - k		5 - S
8.4	Insides of handrails	×			x	
0.0	Additional Information	X		<u> </u>		
-				-	-	

Not applicable for moving walks except S 9500-45 ² Only for units older than S 9300 and S 9500-10/15 ³ Not applicable for escalators **Bold: mandatory for all units;** other tasks unit-dependent

			6		C)-	(3)	ally -
	Drive	Station		e 10		8	
Warning Signs							
2.3	Pictographs Oneseting D	antia and tabatia a	x	. š			
10.7	Plain text display	evices/Lighting	1	v	_		-
10.4	Combolate lighting			Ŷ		0 0	
10.9	Step/pallet gap lighting			x		x	
10.12	Entrance monitoring system			x			
10.13	Light barriers – guide bars/skirt par	els		x		- P	
10.14	Direction indicators			X		5 - 31	
10.15	Key switch			x		e e	
10.15	Emergency stopp			x	1		
		Pit					
5.7	Floor covers		302 8	r	emov	/e	
5.8	Floor cover contact		_	X	X		
5.9	Guard plate			Г	emov	/e	
10.2	Control cabinet		_		emov	/e	<u> </u>
10.Z	Control cabinet		×			×	
2.0	Escalator/moving walk pit					X	
3.2	Oil lough in geographic		CHONIC			×	
2.3	Transmission & motor boarings		X				
37	Service brake		-	÷	v		
3.8	Brake band		x	^	Ŷ		
3.9	Brake contact		and the second	x		1	
3.10	Braking distance		-	n	easu	ire	
3.11	Safety brake			X			
3.12	Rods of all brakes		1			0 - P	×
3.13	Speed monitor			х		5 - 60	
3.14	Mechanical blocking device			x		2	
3.15	Drive chain	1	x	2	X		×
3.16	Drive chain contact		x	x	7030	. J	
7.3	Oil container of downdraft lubricatio	n system			refill	_	
7.4	Oil level in automatic lubrication sys	stem	x				
1.5	Oil application brushes		x		x		
8.12	Handrall drive chain		x		X		×
8.13	Ull collector for handrall drive ch	ain				X	
10.5	Maintenance operating panel			X			
10.10	Smoke detector			×			<u> </u>
10.10	Heating for		-	×			<u></u>
10.10	Machine room fan			-		v	
10.10	GEU fan		-	÷		Ŷ	
10.20	Step/Pallet Band	/Tracks/Combplate					
4.2	Tangential guides	1	X			1	
5.2	Step/pallet quides		×		×	3	
5.3	Combplate		x	х	x	8 8) 	
5.4	Lateral guides of combplate ²				3	x	×
5.5	Combplate contacts	2		x		1	
5.6	Combs		x			x	x
10.18	Combplate heating			x	_		22
6.6	Step/pallet entry		x				
6.15	Step/pallet level contact			x		X	×
6.16	Antistatic brushes – step/pallet b	and	X				
0.1/	Step/patter pand monitor			X		X	
4.4	Skirt contact:			X			
4.7	Skin contacts	J Custom		×		8 - B	
8.5	Newel chains	ni Oystenn					
8.6	Handrail quide profiles		<u></u>			<u>.</u>	
8.7	Handrail deflection roller assemb	lies	1			~	C:4.
8.9	Handrail tension		ve	ю	d٢	ЧH	
8.10	Pressure belt/chain		x	5	x		
8.11	Friction wheel		X	٦	DÜ	nc	
9.2	Handrail entry contacts	_		X	X		
	Fi	nish Ruu	d	n		Cr	nsen
6.2	3 maintenance steps/8 pallets	Du			wsta		
10.2	Control cabinet, tension/drive sta	ion			nsta	bri	itre
5.9	Guard plate, tension/drive station		F	u	Insta	UT	ιιy
5.7	Floor covers, tension/drive statio	n A	J		clos	b .	-
2.7	Visible surfaces (traces of work)	ADD	0\	'e	d	D	te Col
2.2	Protective barrier, tension/drives	tation		1	emov	/e	
1.2	Lustomer		l n	otify	ofs	tart-i	10
		A		الم	-		last
		Appro	ve	:a		or	: ISSU
				-			
		1 27	71(12	12	02	20

\$	Inspection of noise/ temperature/vibration
0	Function check
0-	Adjustment
Ð	Cleaning
ď	Lubrication

Building Division

Maintenance Checklist Type BC Escalators & Moving Walks

4-500-314



4-50 8-13-4

-	Preparation	- M - 2	6	•					
2.2	Customer			notify of shutdown					
2.2	Protective barrier, tension/drive station				set up				
	Observe OEM maintenance instructions								
	Overall Length, Closed				_				
	Balustrade/Skirts/Cladding								
2.4	Various guards and deflectors	X							
2.5	Lateral and soffit cladding	X							
4.8	Skirt brushes	X							
9.3	Balustrade	X		2 2					
	Operating Devices/Lighting								
10.6	Balustrade lighting		х						
10.7	Skirt lighting		х		l i				
10.11	Truss lighting		X	1	Ũ.,				
in and a second s	Step/Pallet Band/Tracks/Combplat	e							
6.8	Step/pallet band		X		ļ				
	Handrail System								
8.3	Handrail	18	X	8 - 9 -	8 <u>-</u> 4				
	Tension Station	10 I		00 O.	14 9				
	Warning Signs								
2.3	Pictographs	X			1				
	Operating Devices/Lighting	Lancore							
10.3	Digital display	T I	x						
10.4	Plain text display	1	x						
10.8	Combolate lighting	6 6	x	0.0	19				
10.9	Step/pallet gap lighting	1	x	8 6	0 - 1				
10.12	Entrance monitoring system	-	x						
10.12	Light harriers – guide hars/skirt nanels	-	Ŷ						
10.10	Direction indicators	1	Ŷ		12 2				
10.14	Key switch	-	- v						
10.15	Emergency stop	8 - 3	÷	6 - 9	Q _ 4				
10.10	Pit	S. 3	<u>^</u>	19 (A2	či ž				
57	Floor covers	T	r	emove	-				
59	Guard plate	-	remove						
10.2	Control cabinet	-	remove						
10.2	Control cabinet	Y	<u> </u>						
105	Maintenance operating panel	•	~	<u>^</u>	8-4				
10.0	Machine room lighting	1 -	÷		8 3				
6.2	3 maintenance stens/8 nallets		L^,	emove	-				
2.6	Eccelator/moving.walk nit	remove		r -					
2.0	Step/Dallet Band/Tracks/Combolat	-	_	<u>^</u>	<u> </u>				
5.2	Combolate		2	ř í	<u> </u>				
5.0	Latoral quidos of combalate	•	X	v	v				
5.6	Combs	v	_		÷				
0.0	Step/pallet chains	^	_	<u>^</u>	Ŷ				
0.0	Step/pallet ontry				x				
6.0	Step panet entry	X	_	<u></u>					
0.10	Guide pads	X		1. 2	<u> (</u>				
	Hanuran System	1997	_		-				
0.0	Newer Gridins Handrail auide profiles	×		X	-				
8.6	Handrali guide profiles	X		×	_				
8.15	Hangrall displacement contacts	X		10 - 55-					
_	Overall Length, Open								
	Step/Pallet Band/ I racks/Combplat	e T		i i e					
4.3	Tracks of step rollers	12 1	-	X	-				
	Handrail System	100000000							
8.4	Insides of handralls	X		X					
8.8	Handrall support rollers	X							

	Drive Station	2,50		1 2	
-	Waming Signs				
2.3	Pictographs	X		11	
	Operating Devices/Lighting	CHCC/C		1	
10.4	Plain text display		x		
10.8	Combolate lighting	100	x	1. 0	
10.9	Step/pallet gap lighting	20 12 -	X	-	
10.12	Entrance monitoring system		x	-	
10.13	Light barriers – guide bars/skirt panels		x		
10.14	Direction indicators		X		
10.15	Key switch		x		
10.15	Emergency stop	- (3 - 2)	x	- 82 - 43	
	Pit	67.0			
5.7	Floor covers		rem	love	
5.9	Guard plate	remove			
10.2	Control cabinet	remove			
10.2	Control cabinet	X		X	
2.6	Escalator/moving walk pit	-		X	
3.10	Braking distance	measure			_
3.12	Rods of all brakes	0.0			X
3.15	Drive chain				x
7.3	Oil container of downdraft lubrication system		re	efill	
74	Oil level in automatic lubrication system	X			
8.12	Handrail drive chain				x
10.5	Maintenance operating panel	5442 - S	x	- G G.	
10.10	Machine room lighting	0.0	x		
10.19	Machine room fan		x		
10.20	GFU fan		x		
	Step/Pallet Band/Tracks/Combp	late		_	
5.3	Combplate	X	\mathbf{x}^2		
5.4	Lateral guides of combplate	(Sec.		X	X
5.6	Combs	X		X	X
6.6	Step/pallet entry	×		1 1	
200230	Handrail System				
8.5	Newel chains	X		X	
8.6	Handrail guide profiles	X		X	
8.7	Handrail deflection roller assemblies	X	e - 08	X	
	Finish		9 14	- 10 F	
6.2	3 maintenance steps/8 pallets	install			
10.2	Control cabinet, tension/drive staion	install			
5.9	Guard plate, tension/drive station	install			
5.7	Floor covers, tension/drive station	close			
2.7	Visible surfaces (traces of work)				
2.2	Protective barrier, tension/drive station	1	rem	love	-
22	Customer	notify of start-up			



Cleaning

Lubrication

2

×

Additional	Information
Auditional	monnation

¹ Not applicable for moving walks ² Only for units older than S 9300 and S 9500-10/15

Bold: mandatory for all units; other tasks unit-dependent

Q 409900_04

BUILDING CONSENT NUMBER

2019/1381

Environmental & Planning Services I.C.C. Document Received

17 Dec 2019

Building Division

BUILDING CONSENT NUMBER

2019/1381

Invercargill City Council

Approved Site Copy

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7/02/2020

Documen Bivileling Consent INVENTIO AG, CH-6052 Hergiswil Authority

Prepared

Reviewed

Norms checked

Released

Modification

KA No:

KA Date:

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Lead Office

SC7

Classification

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09.11.2009

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23.12.2009

Services I.C.C. Document Received

17 Dec 2019

Building Division entificate of Conformity

This is to Certify

Schindler Lifts NZ Ltd – Escalator and Moving Walk design, specification, manufacture and installation

Product Description

The certificate covers the Design (engineering design and specification of escalator and moving walk componentry) and Construction (manufacture and installation) of the following Schindler models; 9300, 9500 & 9700 (except moving walk Models 9500 AE Type 10 pallet width 800 and Type 30 pallet width 1400 on an accessible route). It is referred to as the Schindler methodology.

Complies with the Building Code of New Zealand:

When designed, specified, manufactured, installed & maintained in accordance with the conditions of this certificate, Schindler Lifts NZ Ltd escalators and moving walks will comply with the following provisions of the New Zealand Building Code

B1.3.1; B1.3.2; B1.3.3 (a), (b), (f), (l), (m), (p), (r); B1.3.4 (a), (b), (c), (d), (e) B2.3.1; B2.3.2 (b) D1.3.1 (c); D1.3.3 (a), (b), (c), (d), (k) D2.3.1 (a), (b), (c), (d), (e), (f); D2.3.2 (a), (d); D2.3.3 (d); D2.3.4; D2.3.5 (d); F4.3.1; F4.3.4 (a), (b), (c), (d), (e), (h); F8.3.1; F8.3.2 G8.3 G9.3.1: G9.3.3

Subject to the following conditions and limitations:

- 1. This certificate may only be used as a means of compliance when accompanied by a Schindler declaration that the specification, design, manufacture is in accordance with the Schindler methodology that is specified in this certificate.
- 2. Prior to the Code Compliance Certificate being issued a Schindler declaration must be provided that installation is in accordance with the Schindler methodology that is specified in this certificate.
- 3. Any changes to an escalator or moving walk specification must be approved by Schindler Lifts NZ Ltd and will then fall outside the scope of this certificate.
- 4. Schindler Lifts NZ Ltd Maintenance Schedule is to be submitted with the building consent application and incorporated in the compliance schedule.
- 5. Schindler Lifts NZ Ltd will notify AsureQuality Ltd in accordance with Regulation 15 of the Building (Product Certification) Regulations 2008.



Date of Issue 23rd November 2016

Certificate Number AQ-231116-CMNZ Product Use and Scope Schindler Lifts NZ Ltd design, manufacture, supply and install escalators and moving walks in buildings that comply with AS/NZS1170:2011 or where an engineer has established that the existing building has sufficient structural integrity to withstand the building work associated with the installation of the escalator or moving walk. This certificate may be relied upon as a means of compliance when considering a building consent application (Building Design, Building Materials) and also as evidence of compliance with the building consent (Method of Construction) provided that all conditions of this certificate are met.

CODEMARK[™]

Certificate Holder

Schindler Lifts NZ Ltd 25 Nugent Street Auckland, 1023 Ph: (09) 353 7500 Fax: (09) 353 7501 Web: www.schindler.com



"This certificate is issued by an independent certification body accredited by the product certification accreditation body appointed by the Chief Executive of the Ministry of Business, Innovation and Employment (MBIE) under the Building Act 2004 The MBIE does not in any way warrant, guarantee, or represent that the building method or product the subject of this certificate conforms with the New Zealand Building Code, nor accept any liability arising out of the use of the building method or product. The MBIE disclaims, to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages, and costs arising as a result of the use of the building method(s) or product(s) referred to in this certificate. This certificate may only be reproduced in its entirety."

BUILDING CONSENT NUMBER 2019/1381