

17 Dec 2019

Building Division

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2019/1381



Invercargill Central

Tay Street & Dee Street Corner Invercargill

Lift Services Specification

- 1 x Schindler 5500 MRL, 2500kg - Lift 1.2
- 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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Date 8th July 2019
Contact Geoff Cotton.
Company MPM Projects
6 Kirk Street
Grey Lynn
Auckland

Project Name **Invercargill Central**
Schindler Reference C001568 Iss 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

A handwritten signature in black ink, appearing to read "R. Manderson", on a light grey background.

Robin Manderson

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

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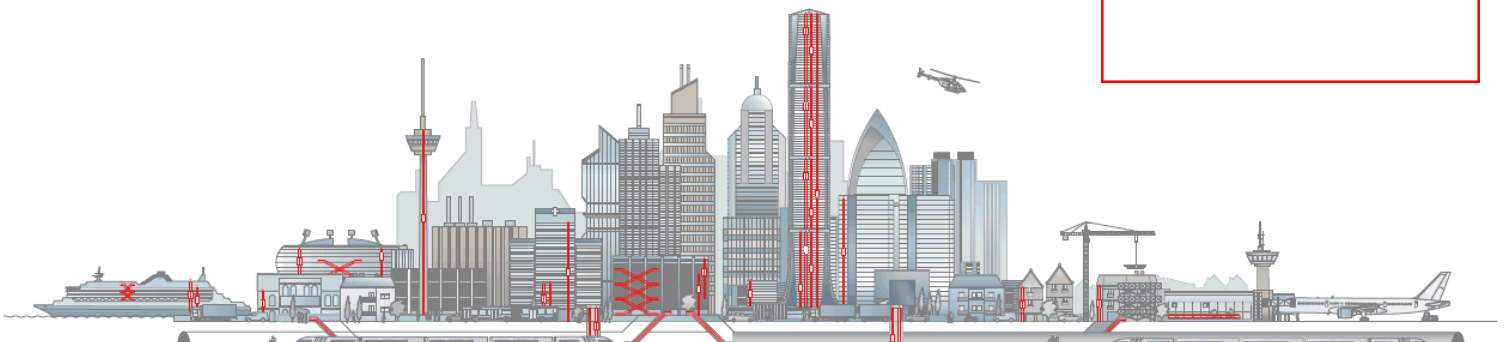
Schindler

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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 green technologies are 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:
 - **12 - month free maintenance** period commencing from practical completion
 - shaft lighting
 - pit ladders
 - 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 have 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.
 - 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

- Our tender is based on the supply of our MRL Passenger Lift & Escalator installation which 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

Lift Shaft		
1	Lifts to fit into Lift Shaft internal sizes as Architects drawings	To be clarified since Architectural drawings not available at time of submission
2	Machine type/arrangement	Machine room-less (MRL)
3	Shaft lighting, pit ladders, pit moisture sensors & heat sensors	Included
4	Architraves	Schindler standard BOX frame included. Not full depth
Lift 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
Special 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 System)	Included
6	CCTV interface	Included
Contractual		
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

A new expression of design.

Created by an Italian designer, the new design of Schindler 5500 awakens the senses.

The unique styling of the car interior creates a reassuring and modern atmosphere and which enhances the appeal of the whole building.

Enjoy this design.

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3. LIFT SERVICES SPECIFICATION

3.1 OVERVIEW: SCHINDLER 5500MRL – LIFTS 1.1

Floors	R.L.	Floor to Floor	Stops	Floor Des.	
2 nd Floor Level	TBA		2	1	X
1 st Floor Level	TBA	6000	1	G	X
		1500			PIT
					LIFT 1.1
Product Range					5500MRL
Arrangement					MRL (Machine Room Less)
No. of Lifts					1
Unit No's					Lift 1.1
CWT Safety Gear					No
Control					Simplex 1KS
Capacity (kg)					1275kg
Speed (m/s)					1.0m/s
Maximum Starts per Hour					180
No. Of Car Entrances					1
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
Door Height (mm)					2100
Travel (mm)					6000
Min. Single Shaft Width (mm)					2400
Min. Shaft Depth (mm)					2025
Min. Pit Depth (mm)					1500
Min. Headroom (mm)					4100

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3. LIFT SERVICES SPECIFICATION

3.2 OVERVIEW: SCHINDLER 5500MRL – LIFT 2.1

Floors	R.L.	Floor to Floor	Stops	Floor Des.	
2 nd Floor Level	TBA		2	1	X
1 st Floor Level	TBA	5000	1	G	X
		1500			PIT
					LIFT 2.1
Product Range					5500MRL
Arrangement					MRL (Machine Room Less)
No. of Lifts					1
Unit No's					Lift 2.1
CWT Safety Gear					No
Control					Simplex 1KS
Capacity (kg)					1275kg
Speed (m/s)					1.0m/s
Maximum Starts per Hour					180
No. Of Car Entrances					1
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
Door Height (mm)					2100
Travel (mm)					5000
Min. Single Shaft Width (mm)					2400
Min. Shaft Depth (mm)					2025
Min. Pit Depth (mm)					1500
Min. Headroom (mm)					4100

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3. LIFT SERVICES SPECIFICATION

3.3 OVERVIEW: SCHINDLER 5500MRL – LIFTS 2.2 & 2.3

Floors	R.L.	Floor to Floor	Stops	Floor Des.	
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	X
2 nd Floor Level	TBA	3300	2	1	X
1 st Floor Level	TBA	6000	1	G	X
		1500			PIT
					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
CWT Safety Gear					No
Control					Duplex 2KS
Capacity (kg)					1275kg
Speed (m/s)					1.6m/s
Maximum Starts per Hour					180
No. Of Car Entrances					1
No. Of Entrance					6
No. Of Stops					6
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
Door Height (mm)					2100
Travel (mm)					2400
Min. Single Shaft Width (mm)					2400
Common Shaft width (mm)					4950 (allows for 150 trimmer beam in between the lift shafts)
Min. Shaft 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

Floors	R.L.	Floor to Floor	Stops	Floor Des.	
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	X
2 nd Floor Level	TBA	3300	2	1	X
1 st Floor Level	TBA	6000	1	G	X
		1500			PIT
					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	
		CWT Safety Gear		No	
		Control		Duplex 2KS	
		Capacity (kg)		1275kg	
		Speed (m/s)		1.6m/s	
		Maximum Starts per Hour		180	
		No. Of Car Entrances		2	
		No. Of Entrance		6	
		No. Of Stops		6	
		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	
		Door Height (mm)		2100	
		Travel (mm)		2100	
		Min. Single Shaft Width (mm)		2740	
		Common Shaft width (mm)		4950 (allows for 150 trimmer beam in between the lift shafts)	
		Min. Shaft Depth (mm)		2220	
		Min. Pit Depth (mm)		1500	
		Min. Headroom (mm)		4300	

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3. LIFT SERVICES SPECIFICATION

3.5 OVERVIEW: SCHINDLER 5500MRL – LIFT & 2.6

2nd Floor Level	TBA			1	X
M Floor Level	TBA	3000	2	M	X
1st Floor Level	TBA	3000	1	G	X
		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
CWT Safety Gear	No
Control	Simplex 1KS
Capacity (kg)	1275kg
Speed (m/s)	1.0m/s
Maximum Starts per Hour	180
No. 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
Door Height (mm)	2100
Travel (mm)	6000
Min. Single Shaft Width (mm)	2400
Min. Shaft Depth (mm)	2220
Min. Pit Depth (mm)	1500
Min. Headroom (mm)	4100

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3.6 OVERVIEW: SCHINDLER 5500MRL – GOODS LIFT 1.2

2 nd Floor Level	TBA		2	1	X X PIT LIFT 1.2
1 st Floor Level	TBA	6000	1	G	
		1600			
Floors	R.L.	Floor to Floor	Stops	Floor Des.	

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 Entrance	2
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)	2100
Travel (mm)	6000
Min. Single Shaft Width (mm)	2700
Min. Shaft Depth (mm)	3000
Min. Pit Depth (mm)	1600
Min. Headroom (mm)	4300

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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)	630...2,500
Rated speed	VKN (m/s)	1. 0...3.0
Stops	ZE (-)	50
Travel height	HQ (m)	150

See attached brochure for supporting documentation/product information:
[Schindler 5500 Brochure](#)



3.8 MAIN CHARACTERISTICS 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

Motor output: As per rated load

Control system: Schindler microcomputer control system

Control type: Simplex 1KS or Duplex 2KS

Guide Shoes: Slipper

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3.9 INTERIOR FINISHES: SCHINDLER 5500MRL

Landing fixtures:	<ul style="list-style-type: none">• 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

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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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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)	0.45...0.65
Rise	Metre (m)	20m

See attached brochure for supporting documentation/product information:
[Schindler 9300 Planning Brochure](#)

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5.1 PRODUCT SPECIFICATION - Schindler 9300AE

5.1 MAIN CHARACTERISTICS

Model:	30 Degrees - 9300AE-Standard -10-ET-30-100-M-R 2 x 2 Cleat step reversible Escalator for ascending 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 gearbox mounted on a common bedplate. The driving unit and controller are housed in the upper section of the truss
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
Design Compliance:	Codemark and EN115:2008+A1

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"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"

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5.2 TECHNICAL DATA

ELECTRICAL & POWER SUPPLY DATA

- **Energy saving system (ECOLINE):** Optional if required separate extra price
- **Number of drives / location:** Single drive, mounted at upper end
- **Variable speed drive:** Not required (optional)
- **Motor starting system:** Star / Delta
- **Motor:** 3 phase squirrel cage induction motor
6 poles, 1000 rev/min
- **Motor - Nominal current:** 18A
- **Motor - Starting current:** 36A
- **Motor capacity:** 7.5 kW
- **Protective system:** Electrical installation – IP21
Motor – IP 55
- **Controller:** Microprocessor based – 'Miconic F'
- **Controller position:** Within truss
- **Power supply:** 3 Phase + Neutral + Earth
- **Location of Power supply entry:** At top of truss
- **Power supply frequency:** 50 Hz
- **Voltage for motor connection:** 400 V $\pm 5\%$
- **Voltage for light connection:** 240 V
- **Voltage for safety circuit:** 110 V
- **Truss cable material:** Standard
- **Operating panel (key switch):** Standard – upper & lower balustrade ends

BULUSTRADE – MATERIAL / COLOUR

- **Balustrade:** Schindler design type 'E'
- **Balustrade height:** 1000mm
- **Balustrade profile (material):** Standard hairline stainless steel
- **Balustrade panels (material):** Straight tempered 10mm glass without mullions
- **Balustrade panels (colour):** Clear
- **Balustrade panel joints:** Standard - 90° to handrail/truss

SKIRTING / DECKING

- **Profile:** Standard
- **Skirting material:** Standard hairline stainless steel with Anti friction coating
- **Skirting colour:** Standard hairline stainless steel 304
- **Skirt deflector brushes:** Included (mandatory as EN115:1995/A2:2004)
- **Inner decking material:** Standard hairline stainless steel
- **Inner decking colour:** Standard hairline stainless steel
- **Outer decking material:** Standard hairline stainless steel
- **Outer decking colour:** Standard hairline stainless steel

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5.2 TECHNICAL DATA (CONTINUED)

TRUSS DESIGN

- **Truss depth:** Standard refer to drawings
- **Truss centre section height:** Standard refer to drawings
- **Corrosion protection:** Primed
- **Truss Colour:** Grey
- **Soffit:** Oil-tight welded soffit steel
- **Oil drain channels:** Included
- **Bottom end support:** Standard
- **Top end support:** Standard
- **Intermediate support:** Not Required
- **Sprinkler pipe in truss:** Not required

TRUSS CLADDING

- **Lateral cladding:** Others
- **Lateral cladding material:** Others
- **Soffit cladding:** Others
- **Decorative cladding (by OTHERS):** Final finish supplied & installed by other trades
Maximum load 20 kg/m²

STEP BAND / HANDRAIL

- **Steps:** Close ribbed, die cast aluminium tread boards with Teflon anti-friction coating & anti-noise coating on underside
- **Step colour:** Silver
- **Step chain:** Standard
- **Lubrication system:** Standard automatic
- **Handrail:** Continuous loop – Vulcanised rubber band with steel cord reinforcement and nylon cord gliding surface
- **Handrail colour:** Black

COMBPLATES / FLOOR COVERS

- **Comb material:** Die cast Aluminium
- **Comb colour:** Natural anodised
- **Floor cover material:** Ribbed Aluminium profiles

LIGHTING

- **Machine room lighting:** Included
- **Combplate lighting:** Not included (optional)
- **Skirt Lighting:** Included (Spots)
- **Balustrade lighting:** Not included (optional)
- **Step gap lighting:** Included (Spots)

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5.2 TECHNICAL DATA (CONTINUED)

OPERATING MODE / CONTROL

- **Light barrier:** Not included (optional)
- **Schindler 'Radar' entrance monitor:** Not Included (optional)
- **Directional indicators:** Included
- **Digital fault display in controller:** Included
- **Digital fault display in decking:** Included
- **Key switch:** 'Up – Down – Neutral' key switch at both landings
- **Operation run meter:** Included
- **Sound level:** 58 dB A – measured 1 meter above combs
- **Reset button on controller:** Included

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 3rd party BMS (Building Management System)

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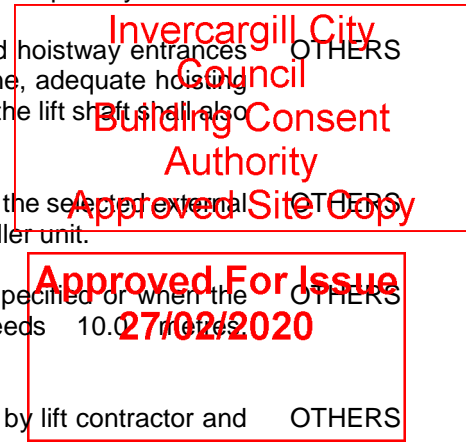
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6. LIFTS ASSOCIATED WORKS

6.1 GENERAL DETAILS

- a To furnish, within thirty days (or sooner if required) from the date of acceptance of 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. OTHERS
- b Build in hitch beams into walls and / or floor slabs as may be required by the lift Contractor. OTHERS
- c All supports to be certified by a Registered Engineer to satisfy the requirements of the nominated codes. OTHERS
- d To furnish a clean dry lockable site storage area from the time the material is 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. OTHERS
- e Provide (at others expense) an adequate power supply to allow starting, testing and adjustment of the machinery as required by the Lift Contractor. OTHERS
- f Provide adequate protection against weather to all lift equipment during and on completion of installation. OTHERS
- g Provide permanent access to the lift machine controller unit and hoistway equipment, all in accordance with the nominated codes. OTHERS
- 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 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. OTHERS
- j To provide suitable arrangements for installing preassembled hoistway entrances and car enclosure within the shaft including the use of a crane, adequate hoisting facilities and adequate access to permit entry of material into the lift shaft shall also be provided. OTHERS
- k Should an external alarm bell be required, provide wiring from the selected external alarm location to a point adjacent to the lift hoistway or controller unit. OTHERS
- l Provide 3-phase emergency stand-by power supply where specified or when the distance between any two consecutive floors exceeds 10.0 metres. OTHERS
- m Adequate weatherproofing of lift landings lobbies as required by lift contractor and lift certifier. OTHERS



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6.2 SPECIFIC DETAILS

PIT		
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
LANDINGS		
2.1	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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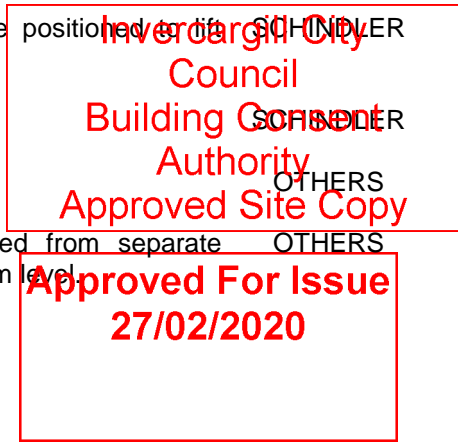
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6.2 SPECIFIC DETAILS - CONTINUED

LIFT SHAFT

- 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:
 Car.....TBC
 Counterweight..... TBC 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 details. OTHERS
- 3.4 Any cutting away, patching and making good up to lift equipment that becomes necessary. OTHERS
- 3.5 Lift well walls constructed from concrete block work shall be reinforced and fully filled. **Note speed-wall construction is not suitable for lift guide rail fixing supports.** OTHERS
- 3.6 Lifting beam/beams/eye in top of lift well. Safe Working Loads (SWL) detailed on Layout drawings. OTHERS
- 3.7 Vent is to be designed, supplied and installed to suitably remove heat produced 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. OTHERS
- 3.8 Lift well flushing as required including bevels to top edges of all recesses greater than 150mm from the clear plumb well line. OTHERS
- 3.9 Full height screens between shafts. OTHERS
- ELECTRICAL**
- 4.1 A 400 volt 3 phase and neutral supply shall be run to the controller at top floor via a motor rated circuit breaker per lift. OTHERS
- 4.2 Heat sensor at top of shaft. SCHINDLER
- 4.3 Shaft lighting with switches at top & bottom of shaft to be positioned as per engineer's instruction. SCHINDLER
- 4.4 Moisture sensor in pit. SCHINDLER
- 4.5 Telephone line to lift controller on top floor. OTHERS
- 4.6 A secondary 230-volt single phase and neutral supply fed from separate distribution board shall be run to the controller at machine room level. OTHERS



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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: Layout & Builders Work

Drawing number: See list Below

Name: Karen Papps

Position: **Managing Director**

Signature:



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

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

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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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EXPERT PLUS

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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.

Examples: Replacement of accumulator batteries on PCBs for emergency light, communication devices and evacuation drives and controls.

3 Checklist MRL

Modification	00	01	02	03	04	05	06		Prepared	09-09-14	laranjfe
KA No.	250001	250002	107442	107460	252016	252046			Reviewed	09-09-14	sallarcr
KA Date	18-11-05	17-02-06	01-10-11	23-12-11	12-10-13	11-10-14			Norms chkd		
									Released	11-10-14	staudema
Schindler Expert Plus Methodology								Replaces / Mod.	Basis Drawing	No Pg.	Format
E 2 Plus Checklist – MRL								xxxxx xxxxx		2	A4
INVENTIO AG CH-6052 Hergiswil				Classification	Lead Office	J 42500001		Page	Lang.		
				11950	EIM			1	E		

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Building Division **Expert Plus - E 2 Plus - J 4250001**

MRL elevators	Maintenance S1				Maintenance S2				Inspection I				
Components													
00 Contact customer	X				X				X				
01 Car interior: calls, indicators, fixings	X	X		X	X	X		X	X				
02 Car lighting and diffuser	X			X	X			X					
03 Car door safety devices		X	X			X	X			X	X		
04 Levelling accuracy	X		X		X		X		X		X		
05 Landing operating panels, optical, accoustical, fixings	X	X		X	X	X		X					
06 Controller: protection cover, lock, documentation	X	X		X	X	X		X					
07 Date check, Error-log, LEDs check	X	X	X		X	X	X						
08 RAM / Trip counter / long-term tasks	X	X	X	X	X	X	X	X	X				
09 Hoistway lightning		X		X		X				X			
10 Manual / automatic passenger rescue device	X	X			X	X							
11 Alarm, communication systems with main power ON										X			
12 Emergency car communication & lighting systems	X	X			X	X							
13 Connections, contactors, relays, electrical protections	X	X		X	X	X		X					
14 Floor level indicator, LED control	X	X			X	X							
15 Control booklet of maintenance visits and breakdowns according to local regulation	X				X					X			
16 Car levelling / blocking / speed control devices		X				X							
17 Final limit switches		X				X							
18 Remote control devices for speed governor and machine brake		X				X							
19 Safety gear					X	X	X	X	X				
20 Maintenance operating device / Short head room device		X				X					X		
21 Car top / maintenance platform, car blocking device	X			X	X	X		X					
22 Inspection: top of hoistway travel limit		X				X							
23 Motor: frame, fan, bearing lubrication and level, fixings, pulleys	X			X	X	X		X	X				
24 Gear: tachometer, backlash, thrust bearing, oil level	X		X	X	X	X		X	X	X			
25 Machine brake: mechanical and electrical, coupling rubbers, brake contact - for EG and FA technologies		X	X	X		X	X	X		X		X	
26 Machine brake: mechanical and electrical, coupling rubbers,		X	X	X		X	X	X		X	X	X	
27 Frequency converter	X			X		X							
28 Speed governor	X			X		X	X		X				
29 Car fixings	X		X										
30 Car suspension fixations and slack-ropes contact	X			X		X	X		X				
31 Car guide shoes & lubricators / rollers	X		X	X	X	X		X	X				
32 Hoistway doors mechanical and electrical	X	X	X	X	X	X	X	X	X	X			
33 Hoistway information and connections	X		X	X		X		X	X				
34 Guide rail fixations	X		X	X									
35 Cwt: guide shoes and lubricators, frame, suspension / divertor pulley fixation	X		X	X	X	X		X	X	X			
36 Cwt: weight fixation / antijump / antitwist / buffer plate / compensation	X			X		X			X				
37 Speed governor rope						X							
38 Suspension ropes / STM condition and tension	X		X			X							
39 Door drive mechanical and electrical	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	X	X	X			X	X	X					
42 Hoistway pit safety set		X		X			X		X				
43 Hoistway / hoistway pit / oil collectors	X			X		X			X				
44 Speed governor rope tensioning pulley and contact		X	X	X			X	X	X				
45 Buffers	X	X		X	X								
46 Safety gear / buffer plate / guide shoes						X	X	X	X	X			
47 Suspension ropes / STM position, pulleys and retainers	X			X		X			X				
48 TSD stopper plate fixation and safety contact	X					X			X	X			
49 Compensation chain / rope and pulley	X		X	X	X								
50 Travelling cable and attachments	X												
51 Counterweight distance to buffer when car at top	X		X			X							
52 Load measuring device		X		X			X		X				
53 Fireman's control, special options, automatic evacuation	X	X				X							
54 Feedback to customer	X					X							

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Building Division

BUILDING CONSENT NUMBER

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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, l, 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), D2.3.3 (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

Subject to the following conditions and limitations:

1. Hydraulic lift installations fall outside the scope of this certificate.
2. 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.
3. 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.
4. Any changes to a lift specification must be approved by Schindler Lifts NZ Ltd and will then fall outside the scope of this certificate.
5. Schindler Lifts NZ Ltd Maintenance Schedule is to be submitted with the building consent application and incorporated in the compliance schedule.
6. Compliance with D1.3.4(b) or V2 applies where the lift car has the following internal dimensions:
 - Not less than 200 x 2000mm OR not less than 1400 x 1400mm.
7. Where the lift car width is less than 1400mm the lift controls are to be located on the adjacent wall.
8. Schindler Lifts NZ Ltd will not issue a Code Compliance Certificate in accordance with Regulation 15 of the Building (Product Certification) Regulations 2008

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Waikaregill City Council Building Consent Authority

John McKay
 John McKay, Chief Executive Officer, AsureQuality Limited



CODEMARK™

Product Use and Scope

Schindler Lifts NZ Ltd design, manufacture, supply and install mechanical lifts 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 lift. 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.

Certificate Holder

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



CodeMark Certification Body
 AsureQuality, 11 Hull Road, Mt Maunganui
 New Zealand
 Tel. 0508 00 11 22
 www.asurequality.com

www.jas-anz.org/register

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.

Building Consent Application

CodeMark Declaration

Title of Certificate: Schindler Lifts NZ Ltd

Escalator & Moving Walk design, specification, manufacture & installation

Certificate Number: AQ—231116-CMNZ

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 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:



Date: 21/06/2019

For & on behalf of Schindler Lifts NZ Ltd

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CodeMark Certificate Holder

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

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Building Division



Schindler

4+ Maintenance Checklist Type A Escalators & Moving Walks

Preparation				
2.2	Customer			notify of shutoff
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		
Operating Devices/Lighting				
10.6	Balustrade lighting	x		
10.7	Skirt lighting	x		
10.11	Truss lighting	x	x	
Step/Pallet Band/Tracks/Combplate				
6.7	Steps/pallets	x		
6.8	Step/pallet band		x	
Handrail System				
8.3	Handrail		x	
Tension Station				
Warning Signs				
2.3	Pictographs	x		
Operating Devices/Lighting				
10.3	Digital display		x	
10.4	Plain text display		x	
10.8	Combplate lighting		x	
10.9	Step/pallet gap lighting		x	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	
Pit				
5.7	Floor covers			remove
5.8	Floor cover contact	x	x	
5.9	Guard plate			remove
10.2	Control cabinet			remove
10.5	Maintenance operating panel	x		
10.10	Machine room lighting	x		
10.16	Smoke detector	x		
10.17	Water level gauge	x		
10.18	Heating fan	x		
7.6	Cycle times of lubrication system ²	x		
6.2	3 maintenance steps/8 pallets			remove
2.6	Escalator/moving walk pit			x
Step/Pallet Band/Tracks/Combplate				
4.2	Tangential guides	x		
5.2	Step/pallet guides	x	x	
5.3	Combplate	x	x	x
5.5	Combplate contacts	x		
5.6	Combs	x		
10.18	Combplate heating	x		
6.3	Step/pallet chains	x	x	x
6.3	Retension step/pallet chain both sides		x	x
6.4	Step/pallet chain tension contacts		x	x
6.6	Step/pallet entry	x		
6.11	Chain rollers	x		
6.13	Step bushings	x		x
6.14	Spring clips – step axles	x		
6.15	Step/pallet level contact		x	x
6.16	Antistatic brushes – step/pallet band	x		
6.17	Step/pallet band monitor		x	x
4.4	Step upthrust contact ³		x	
4.7	Skirt contacts		x	
7.7	Lubrication step	x		x
Handrail System				
8.5	Newel chains	x		
8.14	Handrail monitor		x	
8.16	Antistatic brushes – handrail	x		
9.2	Handrail entry contacts		x	x
Overall Length, Open				
Step/Pallet Band/Tracks/Combplate				
4.5	Step guideway along skirt panels ¹			x
6.9	Pallet band ²	x		
6.12	Step rollers ³	x		
10.18	Ribbed radiator		x	
Additional Information				
¹ Not applicable for moving walks except S 9500-45				
² Only for units older than S 9300 and S 9500-10/1E				
³ Not applicable for escalators				
Bold: mandatory for all units; other tasks: unit-dependent				

Drive Station				
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	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	
Pit				
5.7	Floor covers			remove
5.8	Floor cover contact	x	x	
5.9	Guard plate			remove
10.2	Control cabinet			remove
2.6	Escalator/moving walk pit			x
3.2	Motor air intakes			x
3.3	Oil level in gearbox	x		
3.4	Transmission & motor bearings		x	
3.7	Service brake		x	x
3.8	Brake band	x	x	
3.9	Brake contact		x	
3.10	Braking distance			measure
3.11	Safety brake		x	
3.13	Speed monitor		x	
3.14	Mechanical blocking device		x	
3.15	Drive chain	x	x	x
3.16	Drive chain contact	x	x	
7.3	Oil container of downdraft lubrication system			refill
7.4	Oil level in automatic lubrication system	x		
7.5	Oil application brushes	x	x	
8.12	Handrail drive chain	x	x	x
8.13	Oil collector for handrail drive chain			x
10.5	Maintenance operating panel		x	
10.10	Machine room lighting		x	
10.16	Smoke detector		x	
10.18	Heating fan		x	
10.19	Machine room fan		x	x
10.20	GFU fan		x	x
Step/Pallet Band/Tracks/Combplate				
4.2	Tangential guides	x		
5.2	Step/pallet guides	x	x	
5.3	Combplate	x	x	x
5.5	Combplate contacts		x	
5.6	Combs	x		
10.18	Combplate heating		x	
6.6	Step/pallet entry	x		
6.15	Step/pallet level contact		x	x
6.16	Antistatic brushes – step/pallet band	x		
6.17	Step/pallet band monitor		x	x
4.4	Step upthrust contact ³		x	
4.7	Skirt contacts		x	
Handrail System				
8.5	Newel chains	x		
8.9	Handrail tension	x	x	
8.10	Pressure belt/chain	x	x	
8.11	Friction wheel		x	
9.2	Handrail entry contacts		x	x
Finish				
6.2	3 maintenance steps/8 pallets			install
10.2	Control cabinet, tension/drive station			install
5.9	Guard plate, tension/drive station			install
5.7	Floor covers, tension/drive station			close
2.7	Visible surfaces (traces of work)			remove
2.2	Protective barrier, tension/drive station			remove
2.2	Customer			notify of start-up

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Key to Task Symbols	
	Inspection or replace temporary equipment
	Function check
	Adjustment
	Cleaning
	Lubrication

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4+ Maintenance Checklist Type B Escalators & Moving Walks



Schindler

Preparation					
2.2	Customer				notify of shutoff
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			
Operating Devices/Lighting					
10.6	Balustrade lighting		x		
10.7	Skirt lighting		x		
10.11	Truss lighting		x		
Step/Pallet Band/Tracks/Combplate					
6.8	Step/pallet band		x		
Handrail System					
8.3	Handrail		x		
Tension Station					
Warning Signs					
2.3	Pictographs	x			
Operating Devices/Lighting					
10.3	Digital display		x		
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		
Pit					
5.7	Floor cover				remove
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				x
3.15	Drive chain				x
7.3	Oil container of downdraft lubrication system				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		x		
Step/Pallet Band/Tracks/Combplate					
5.3	Combplate	x	x ²		
5.4	Lateral guides of combplate ²			x	x
5.6	Combs	x		x	x
6.6	Step/pallet entry	x			
Handrail System					
8.5	Newel chains	x			
Finish					
6.2	3 maintenance steps/8 pallets				install
10.2	Control cabinet, tension/drive station				install
5.9	Guard plate, tension/drive station				install
5.7	Floor covers, tension/drive station				close
2.7	Visible surfaces (traces of work)				x
2.2	Protective barrier, tension/drive station				remove
2.2	Customer				notify of start-up
Step/Pallet Band/Tracks/Combplate					
4.3	Tracks of step rollers ¹				x

Drive Station					
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		x		
10.14	Direction indicators		x		
10.15	Key switch		x		
10.15	Emergency stop		x		
Pit					
5.7	Floor covers				remove
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				x
3.15	Drive chain				x
7.3	Oil container of downdraft lubrication system				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		x		
Step/Pallet Band/Tracks/Combplate					
5.3	Combplate	x	x ²		
5.4	Lateral guides of combplate ²			x	x
5.6	Combs	x		x	x
6.6	Step/pallet entry	x			
Handrail System					
8.5	Newel chains	x			
Finish					
6.2	3 maintenance steps/8 pallets				install
10.2	Control cabinet, tension/drive station				install
5.9	Guard plate, tension/drive station				install
5.7	Floor covers, tension/drive station				close
2.7	Visible surfaces (traces of work)				x
2.2	Protective barrier, tension/drive station				remove
2.2	Customer				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

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Key to Task Symbols	
	Inspection of noise/temperature/vibration
	Function check
	Adjustment
	Cleaning
	Lubrication

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4+ Maintenance Checklist Type C Escalators & Moving Walks



Schindler

Preparation				
2.2	Customer			notify of shutoff
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		
Operating Devices/Lighting				
10.6	Balustrade lighting		x	
10.7	Skirt lighting		x	
10.11	Truss lighting		x	
Step/Pallet Band/Tracks/Combplate				
6.8	Step/pallet band		x	
Handrail System				
8.3	Handrail		x	
Tension Station				
Warning Signs				
2.3	Pictographs	x		
Operating Devices/Lighting				
10.3	Digital display		x	
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	
Pit				
5.7	Floor cover			remove
5.9	Guard plate			remove
10.2	Control cabinet			remove
10.5	Maintenance operating panel		x	
10.10	Machine room lighting		x	
6.2	3 maintenance steps/8 pallets			remove
2.6	Escalator/moving walk pit			x
Step/Pallet Band/Tracks/Combplate				
5.3	Combplate	x	x ²	
5.6	Combs	x		
6.3	Step/pallet chains			x
6.6	Step/pallet entry	x		
Handrail System				
8.5	Newel chains	x		x
8.6	Handrail guide profiles	x		x
8.15	Handrail displacement contacts ²	x		
Overall Length, Open				
Handrail System				
8.4	Insides of handrails	x		x
8.8	Handrail support rollers	x		

Drive Station				
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		x	
10.14	Direction indicators		x	
10.15	Key switch		x	
10.15	Emergency stop		x	
Pit				
5.7	Floor covers			remove
5.9	Guard plate			remove
10.2	Control cabinet			remove
2.6	Escalator/moving walk pit			x
3.10	Braking distance			measure
3.15	Drive chain			x
7.3	Oil container of downdraft lubrication system			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		x	
Step/Pallet Band/Tracks/Combplate				
5.3	Combplate	x	x ²	
5.6	Combs	x		
6.6	Step/pallet entry	x		
Handrail System				
8.5	Newel chains	x		x
8.6	Handrail guide profiles	x		x
8.7	Handrail deflection roller assemblies	x		x
Finish				
6.2	3 maintenance steps/8 pallets			install
10.2	Control cabinet, tension/drive station			install
5.9	Guard plate, tension/drive station			install
5.7	Floor covers, tension/drive station			close
2.7	Visible surfaces (traces of work)			x
2.2	Protective barrier, tension/drive station			remove
2.2	Customer			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				

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Key to Task Symbols

	Inspection of noise/ temperature/vibration
	Function check
	Adjustment
	Cleaning
	Lubrication

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4+ Maintenance Checklist Type D Escalators & Moving Walks



Schindler

Preparation				
2.2	Customer			notify of shutoff
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		
Operating Devices/Lighting				
10.6	Balustrade lighting		x	
10.7	Skirt lighting		x	
10.11	Truss lighting		x	
Step/Pallet Band/Tracks/Combplate				
6.8	Step/pallet band		x	
Handrail System				
8.3	Handrail		x	
Tension Station				
Warning Signs				
2.3	Pictographs	x		
Operating Devices/Lighting				
10.3	Digital display		x	
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	
Pit				
5.7	Floor cover			remove
5.9	Guard plate			remove
10.2	Control cabinet			remove
10.5	Maintenance operating panel		x	
10.10	Machine room lighting		x	
6.2	3 maintenance steps/8 pallets			remove
2.6	Escalator/moving walk pit			x
Step/Pallet Band/Tracks/Combplate				
5.3	Combplate	x	x ²	
5.6	Combs	x		
6.3	Step/pallet chains			x
6.6	Step/pallet entry	x		
Handrail System				
8.5	Newel chains	x		

Drive Station				
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		x	
10.14	Direction indicators		x	
10.15	Key switch		x	
10.15	Emergency stop		x	
Pit				
5.7	Floor covers			remove
5.9	Guard plate			remove
10.2	Control cabinet			remove
2.6	Escalator/moving walk pit			x
3.10	Braking distance			measure
3.15	Drive chain			x
7.3	Oil container of downdraft lubrication system			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		x	
Step/Pallet Band/Tracks/Combplate				
5.3	Combplate	x	x ²	
5.6	Combs	x		
6.6	Step/pallet entry	x		
Handrail System				
8.5	Newel chains	x		
Finish				
6.2	3 maintenance steps/8 pallets			install
10.2	Control cabinet, tension/drive station			install
5.9	Guard plate, tension/drive station			install
5.7	Floor covers, tension/drive station			close
2.7	Visible surfaces (traces of work)			x
2.2	Protective barrier, tension/drive station			remove
2.2	Customer			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	

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Key to Task Symbols	
	Inspection of noise/temperature/vibration
	Function check
	Adjustment
	Cleaning
	Lubrication

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4+ Maintenance Checklist Type E Escalators & Moving Walks



Schindler

Preparation		
2.2	Customer	notify of shut-off
2.2	Protective barrier, tension/drive station	set up
Observe OEM maintenance instruction		
Tension Station		
Warning Signs		
2.3	Pictographs	x
Operating Devices/Lighting		
10.3	Digital display	x
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/Combplate		
5.3	Combplate	x
5.6	Combs	x
6.6	Step/pallet entry	x
Handrail System		
8.5	Newel chains	x
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
Operating Devices/Lighting		
10.6	Balustrade lighting	x
10.7	Skirt lighting	x
10.11	Truss lighting	x
Step/Pallet Band/Tracks/Combplate		
6.8	Step/pallet band	x
Handrail System		
8.3	Handrail	x

Drive Station		
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	x
10.14	Direction indicators	x
10.15	Key switch	x
10.15	Emergency stop	x
Step/Pallet Band/Tracks/Combplate		
5.3	Combplate	x
5.6	Combs	x
6.6	Step/pallet entry	x
Handrail System		
8.5	Newel chains	x
Finish		
2.2	Protective barrier, tension/drive station	remove
2.2	Customer	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	

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Key to Task Symbols:	
	Inspection of noise/temperature/vibration
	Function check
	Adjustment
	Cleaning
	Lubrication

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Maintenance Checklist Type ABC Escalators & Moving Walks



Schindler

Preparation					
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			
Operating Devices/Lighting					
10.6	Balustrade lighting		x		
10.7	Skirt lighting		x		
10.11	Truss lighting		x	x	
Step/Pallet Band/Tracks/Combplate					
6.7	Steps/pallets	x			
6.8	Step/pallet band		x		
Handrail System					
8.3	Handrail		x		
Tension Station					
Warning Signs					
2.3	Pictographs	x			
Operating Devices/Lighting					
10.3	Digital display		x		
10.4	Plain text display		x		
10.8	Combplate lighting		x		
10.9	Step/pallet gap lighting		x		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		
Pit					
5.7	Floor covers				remove
5.8	Floor cover contact		x	x	
5.9	Guard plate				remove
10.2	Control cabinet				remove
10.2	Control cabinet	x			
2.6	Escalator/moving walk pit				x
3.2	Motor air intakes				x
3.3	Oil level in gearbox		x		
3.4	Transmission & motor bearings		x		
3.7	Service brake		x	x	
3.8	Brake band	x	x	x	
3.9	Brake contact				
3.10	Braking distance				measure
3.11	Safety brake		x		
3.12	Rods of all brakes				x
3.13	Speed monitor		x		
3.14	Mechanical blocking device		x		
3.15	Drive chain	x	x	x	x
3.16	Drive chain contact	x	x		
7.3	Oil container of downdraft lubrication system				refill
7.4	Oil level in automatic lubrication system		x		
7.5	Oil application brushes		x	x	
8.12	Handrail drive chain		x	x	x
8.13	Oil collector for handrail drive chain				x
10.5	Maintenance operating panel		x		
10.10	Machine room lighting		x		
10.16	Smoke detector		x		
10.17	Water level gauge		x		
10.18	Heating fan		x		
7.6	Cycle times of lubrication system ²		x		
6.2	3 maintenance steps/8 pallets				remove
2.6	Escalator/moving walk pit				x
Step/Pallet Band/Tracks/Combplate					
4.2	Tangential guides	x			
5.2	Step/pallet guides	x		x	
5.3	Combplate	x	x	x	
5.4	Lateral guides of combplate ²				x x
5.5	Combplate contacts		x		
5.6	Combs	x			x x
10.18	Combplate heating		x		
6.6	Step/pallet entry		x		
6.15	Step/pallet level contact		x		x x
6.16	Antistatic brushes – step/pallet band	x			
6.17	Step/pallet band monitor		x		x
4.4	Step upthrust contact ¹		x		
4.7	Skirt contacts		x		
7.7	Lubrication step	x			x
Handrail System					
8.5	Newel chains	x			x
8.6	Handrail guide profiles	x			x
8.7	Handrail deflection roller assemblies	x			x
8.9	Handrail tension	x			x
8.10	Pressure belt/chain	x			x
8.11	Friction wheel	x			x
9.2	Handrail entry contacts		x	x	
Finish					
6.2	3 maintenance steps/8 pallets				install
10.2	Control cabinet, tension/drive station				close
5.9	Guard plate, tension/drive station				close
5.7	Floor covers, tension/drive station				close
2.7	Visible surfaces (traces of work)				remove
2.2	Protective barrier, tension/drive station				remove
2.2	Customer				notify of start-up
Overall Length, Open					
Step/Pallet Band/Tracks/Combplate					
4.3	Tracks of step rollers				x
4.5	Step guideway along skirt panels ¹				x x
6.9	Pallet band	x			
6.12	Step rollers ¹	x			
10.18	Ribbed radiator		x		
Handrail System					
8.4	Insides of handrails	x			x
8.8	Handrail support rollers	x			
Additional Information					

¹ 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

Drive Station					
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		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		
Pit					
5.7	Floor covers				remove
5.8	Floor cover contact		x	x	
5.9	Guard plate				remove
10.2	Control cabinet				remove
10.2	Control cabinet	x			
2.6	Escalator/moving walk pit				x
3.2	Motor air intakes				x
3.3	Oil level in gearbox		x		
3.4	Transmission & motor bearings		x		
3.7	Service brake		x	x	
3.8	Brake band	x	x	x	
3.9	Brake contact				
3.10	Braking distance				measure
3.11	Safety brake		x		
3.12	Rods of all brakes				x
3.13	Speed monitor		x		
3.14	Mechanical blocking device		x		
3.15	Drive chain	x	x	x	x
3.16	Drive chain contact	x	x		
7.3	Oil container of downdraft lubrication system				refill
7.4	Oil level in automatic lubrication system		x		
7.5	Oil application brushes		x	x	
8.12	Handrail drive chain		x	x	x
8.13	Oil collector for handrail drive chain				x
10.5	Maintenance operating panel		x		
10.10	Machine room lighting		x		
10.16	Smoke detector		x		
10.18	Heating fan		x		
10.19	Machine room fan		x		x
10.20	GFO fan		x		x
Step/Pallet Band/Tracks/Combplate					
4.2	Tangential guides	x			
5.2	Step/pallet guides	x		x	
5.3	Combplate	x	x	x	
5.4	Lateral guides of combplate ²				x x
5.5	Combplate contacts		x		
5.6	Combs	x			x x
10.18	Combplate heating		x		
6.6	Step/pallet entry		x		
6.15	Step/pallet level contact		x		x x
6.16	Antistatic brushes – step/pallet band	x			
6.17	Step/pallet band monitor		x		x
4.4	Step upthrust contact ¹		x		
4.7	Skirt contacts		x		
Handrail System					
8.5	Newel chains	x			x
8.6	Handrail guide profiles	x			x
8.7	Handrail deflection roller assemblies	x			x
8.9	Handrail tension	x			x
8.10	Pressure belt/chain	x			x
8.11	Friction wheel	x			x
9.2	Handrail entry contacts		x	x	
Finish					
6.2	3 maintenance steps/8 pallets				install
10.2	Control cabinet, tension/drive station				close
5.9	Guard plate, tension/drive station				close
5.7	Floor covers, tension/drive station				close
2.7	Visible surfaces (traces of work)				remove
2.2	Protective barrier, tension/drive station				remove
2.2	Customer				notify of start-up
Key to Task Symbols					
	Inspection of noise/temperature/vibration				
	Function check				
	Adjustment				
	Cleaning				
	Lubrication				

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Maintenance Checklist Type BC Escalators & Moving Walks



Schindler

Preparation					
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			
Operating Devices/Lighting					
10.6	Balustrade lighting		x		
10.7	Skirt lighting		x		
10.11	Truss lighting		x		
Step/Pallet Band/Tracks/Combplate					
6.8	Step/pallet band		x		
Handrail System					
8.3	Handrail		x		
Tension Station					
Warning Signs					
2.3	Pictographs	x			
Operating Devices/Lighting					
10.3	Digital display		x		
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		
Pit					
5.7	Floor covers				remove
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				x
3.15	Drive chain				x
7.3	Oil container of downdraft lubrication system				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		x		
Step/Pallet Band/Tracks/Combplate					
5.3	Combplate	x	x ²		
5.4	Lateral guides of combplate ²			x	x
5.6	Combs	x			x
6.6	Step/pallet entry	x			
6.2	3 maintenance steps/8 pallets				remove
2.6	Escalator/moving walk pit				x
Step/Pallet Band/Tracks/Combplate					
5.3	Combplate	x	x ²		
5.4	Lateral guides of combplate ²			x	x
5.6	Combs	x			x
6.3	Step/pallet chains				x
6.6	Step/pallet entry	x			
6.10	Guide pads ¹	x			
Handrail System					
8.5	Newel chains	x			x
8.6	Handrail guide profiles	x			x
8.15	Handrail displacement contacts ²	x			
Overall Length, Open					
Step/Pallet Band/Tracks/Combplate					
4.3	Tracks of step rollers ¹				x
Handrail System					
8.4	Insides of handrails	x			x
8.8	Handrail support rollers	x			

Drive Station					
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		x		
10.14	Direction indicators		x		
10.15	Key switch		x		
10.15	Emergency stop		x		
Pit					
5.7	Floor covers				remove
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				x
3.15	Drive chain				x
7.3	Oil container of downdraft lubrication system				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		x		
Step/Pallet Band/Tracks/Combplate					
5.3	Combplate	x	x ²		
5.4	Lateral guides of combplate ²			x	x
5.6	Combs	x			x
6.6	Step/pallet entry	x			
Handrail System					
8.5	Newel chains	x			x
8.6	Handrail guide profiles	x			x
8.7	Handrail deflection roller assemblies	x			x
Finish					
6.2	3 maintenance steps/8 pallets				install
10.2	Control cabinet, tension/drive station				install
5.9	Guard plate, tension/drive station				install
5.7	Floor covers, tension/drive station				close
2.7	Visible surfaces (traces of work)			x	
2.2	Protective barrier, tension/drive station				remove
2.2	Customer				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

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Key to Task Symbols	
	Inspection of noise/temperature/vibration
	Function check
	Adjustment
	Cleaning
	Lubrication

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Certificate 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.



John McKay, Chief Executive Officer, AsureQuality Limited

Date of Issue 23rd November 2016

Certificate Number AQ-231116-CMNZ



CODEMARK™

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.

Certificate Holder

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



www.jas-anz.org/register

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