Part 1 – Lift and Escalator Installation Summary (* Please delete, if not applicable) Page	of
Name of Building / Unit / Common Area *	
Address of Building / Unit / Common Area *	
Date of Declaration by Registered Energy Assessor in Form EE2 / EE3 / EE4 *	
Documents submitted (Please tick where applicable.)	No. of sheets
Form EE-LE Part 1 : Lift and Escalator Installation Summary	
Form EE-LE Part 2 : Traction Lift and Hydraulic Lift Worksheet	
Form EE-LE Part 3 : Escalator Worksheet	
Form EE-LE Part 4 : Passenger Conveyor Worksheet	
Form EE-LE Part 5 : Total Power Factor for Three-Phase Three-Wire Power Supply System	
Form EE-LE Part 6 : Declaration	
Location layout drawings showing the locations of the lifts, escalators & passenger conveyors	
A drawing list indicating the title and reference number of each drawing	
Manufacturer-issued or contractor*-issued technical documents to indicate the technical data of lifts/escalators/ passenger conveyors in this Form (*Refers to the contractor, who is a registered lift contractor / registered escalator contractor (under Lifts and Escalators Ordinance, Cap. 618) engaged to carry out the lift and escalator installation so indicated in this Form)	
A technical document list to summarise all technical document titles and the corresponding model numbers/descriptions of the lifts/escalators/passenger conveyors	
Others (Please give details)	
 Remarks (applicable to Parts 1 to 4) :- 1) Ref. Nos. of all lifts/escalators/passenger conveyors in this Form should be consistent with the Ref. I in drawings. 2) Location layout drawings should : clearly indicate all newly installed/retrofitted lift, escalator & passenger conveyor installation g BEC, with reference nos. tallying with reference nos. shown in Parts 2 to 4 of this Form; and indicate the lift, escalator & passenger conveyor installation not governed by the BEC, if should rawing, with an appropriate symbol, marking or colouring different from the ones governed. 3) All documents including this Form are for demonstration of compliance with the BEC for the lift, passenger conveyor installation, and should cover all the relevant items governed by the BEC in resulift, escalator & passenger conveyor installation. 4) Should space provided in this Form be inadequate, please provide details with clear cross-reference separate sheets and attach to this Form. 5) Descriptions and numbering of each installation, system, equipment, building block, floor, room, speach of Forms EE-LG, EE-AC, EE-EL, EE-LE & EE-PB, should such appear in more than one type of Forms teintical. 6) Any incomplete or erroneous information in this Form may render this Form being regarded invalid.	overned by own on the escalator & pect of the rencing on pace etc. in

(Please refer to Section 8, Code of Practice for Energy Efficiency of Building Services Installation 2018 Edition)

	art 2 – Traction Lift and Hydraulic Lift Worksheet (Please tick where applicable)										
Any installa	Any installation of traction/hydraulic lift involved ? (* Please delete, if not applicable)										
□ Yes. inst	allation of tractio	on* / hvdraulic* lift i	nvolved (If	ves. please	provide information in 1)	to 9) below)					
-		olved (if no, please p		,							
1) <u>Electric</u>	al Power (BEG	C Clause 8.4)	(Please pro	vide inform	ation in table below)						
				(All at ra	ted load and at rated spee	ed in the upward direction)				
Lift Ref.	Lift type Lift Ref Lift Car Lighting Power (kW) Rated Rated Rated Rated Rated Relectrical power (kW) Relectrical p										
No.	Traction / Hydraulic	(BEC Clause 8.5.4)	load (kg)	speed (m/s)	(BEC Clause 8.4.1 / 8.4.2)	(BEC Table 8.4.1a ⁽¹⁾ / 8.4.1b ⁽²⁾ / 8.4.2)	Density (W/m ²)	Factor ⁽³⁾	(THD %)	Load (kg)	
					(Please insert additional	row if necessary)		•		•	
		🗆 Yes 🗖 No									
		🗆 Yes 🛛 No									
		🗆 Yes 🛛 No									
		🗆 Yes 🗖 No									
		🗆 Yes 🗆 No									
		🗆 Yes 🗆 No									
		🗆 Yes 🗆 No									
		🗆 Yes 🗆 No									
□ Yes □ No											
		🗆 Yes 🗆 No									
		🗆 Yes 🗆 No									
□ Yes □ No □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □										<u> </u>	
(1) BEC (2) BEC	Table 8.4.1b is	applicable to each	of the insta	allation invo	5	g works of an existing build	ding.				

Form EE-LE

Pageof (Please tick where applicable)
2) Lift Decoration Load (BEC Clause 8.5.2)
For lifts listed in 1) (please tick where applicable)
 the decoration load in the lift car does not exceed the corresponding maximum allowable value given in BEC Table 8.5.2
Installation details shown on dwg.noattached
Decoration load calculation shown on document ref. noattached
no installation of decoration load is involved
3) Lift Ventilation and Air-conditioning (BEC Clause 8.5.4)
(Please tick where applicable)
(a) The ventilation in each lift listed in 1), except for observation lift, after lift idling for 2 minutes can be automatically shut off until reactivation by passenger call (BEC Clause 8.5.4.1) ?
□ Yes
(b) Any lifts listed in 1) provided with air-conditioning inside the lift car ?
Yes, and the air-conditioning in each lift, except for observation lift, after lift idling for 10 minutes can be automatically shut off until reactivation by passenger call and resume operation no earlier than 5 minutes after the shut-off (BEC Clause 8.5.4.2)
No lift provided with air-conditioning
(c) Lift car ventilation fan consumes at or below 0.7 W per L/s air flow at design condition (BEC Clause 8.5.4.3) ?
□ Yes
No ventilation fan involved
4) Lift Regenerative Braking (BEC Clause 8.5.5)
For lifts listed in 1), any installation of lift is with rated speed of 2.5 m/s or above and with rated load at 1000 kg or above ? (Please tick where applicable)
Yes, and regenerative braking provided.
□ Schematic wiring diagram / drawing noattached
 Photo ref. no attached Document ref. no showing the details of the device attached
□ No
5) Lift Car Automatic Lighting Control (BEC Clause 8.5.6)
For each lift listed in 1), lift car lighting power can be automatically reduced to 50% or less after idling for 10 minutes ?
Yes, Type of lighting control:
□ No. Reason:

(Please refer to Section 8, Code of Practice for Energy Efficiency of Building Services Installation 2018 Edition)

Part 2 – Traction Lift and Hydraulic Lift Worksheet Pageof (Please tick where applicable)
6) Lift Parking Mode (BEC Clause 8.5.3)
For lifts listed in 1), any installation of lift bank involved?
(Please tick where applicable)
Yes, and for each lift bank at least one lift car would operate under a parking mode during low traffic period when the traffic demand is low, and not respond to passenger calls until it returns to the normal operation mode (BEC Clause 8.5.3.1 & 8.5.3.2)
□ No installation of lift bank involved
7) <u>Total Power Factor</u> (BEC Clause 8.5.1)
For each lift listed in 1), in respect of its total power factor of the motor drive (at the isolator connecting the lift to the building's electrical supply circuit) at rated load rated speed (traveling upward) (BEC Clause 8.5.1.1) (please tick where applicable)
the total power factor is not less than 0.85 (BEC Clause 8.5.1.1 and 8.5.1.4 with calculation in accordance with BEC Appendix B)
a power factor correction device is installed at the motor control centre of the motor drive to provide the compensation such that the overall total power factor is not less than 0.85 (BEC Clause 8.5.1.3)
Schematic wiring diagram / drawing noattached
Photo ref. no attached
Document ref. no showing the details of the device, the T& records and calculation of total power factor attached
8) Total Harmonic Distortion (BEC Clause 8.6)
For each lift listed in 1), in respect of its total harmonic distortion of current (at the isolator connecting the lift to the building's electrical supply circuit) produced by the motor drive at rated load rated speed (travelling upward)
(please tick where applicable)
the total harmonic distortion is limited to the maximum allowable value specified in BEC Table 8.6.1 (BEC Clause 8.6.1)
a harmonic correction device is installed at the motor control centre of the motor drive such that the overall total harmonic distortion is reduced to a level limited to the maximum allowable value specified in BEC Table 8.6.1 (BEC Clause 8.6.3)
Schematic wiring diagram / drawing noattached
Photo ref. no attached
Document ref. no showing the details of the device and the T&C records attached

Part 2 – Traction Lift and Hydraulic Lift Worksheet	Pageof
(Please tick where applicable)	
9) Metering and Monitoring Facilities (BEC Clause 8.7)	
(please tick where applicable)	
For each lift listed in 1), for its electrical supply circuit for the motor drive, in respect ((all phase to phase and phase to neutral), currents (three-phrase currents and neutra harmonic distortion, energy consumption (kWh), power (kW) and maximum demand	l), total power factor, total
Metering devices are provided as specified in BEC Clause 8.7.1	
Schematic wiring diagram / drawing no	attached
Photo ref. no attached	
Document ref. no showing the c	details of the device attached
The metering devices for the total harmonic distortion measurement are capable of 31 st harmonic order (BEC Clause 8.7.2)	of measuring at least up to
The measurement parameters are trended every 15 minutes and include hourly, d data. The monitoring facilities are capable of maintaining all data collected for a r Clause 8.7.3)	

(Please refer to Section 8, Code of Practice for Energy Efficiency of Building Services Installation 2018 Edition)

Part 3 –	Page of									
 Any installation of escalator (excluding passenger conveyor) involved? Yes (If yes, please provide information in 1) to 5) below) No installation of escalator involved (if no, please proceed direct to Part 4) 										
1) <u>Electrical Power</u> (BEC Clause 8.4) (Please provide information in table below)										
(All under no-load condition at rated speed)										
Escalator Ref. No.	Type (Non-public Service / Public Service / Heavy Duty)	Rise (m)	Max allowed electrical power (kW) (BEC Table 8.4.3)	Power Factor	Total Harmonic Distortion (THD %)					
			(Please ir	nsert addi	tional row if neo	cessary)				
 2) <u>Total Power Factor</u> (BEC Clause 8.5.1) For each escalator listed in 1), in respect of its total power factor of the motor drive (at the isolator connecting the escalator to the building's electrical supply circuit or the circuit protective device serving the escalator) at brake load rated speed (steps or pallets moving upward for escalator with a rise) (please tick where applicable) the total power factor is not less than 0.85 (BEC Clause 8.5.1.2 and 8.5.1.4 with calculation in accordance with BEC Appendix B) a power factor correction device is installed at the motor control centre of the motor drive to provide the compensation such that the overall total power factor is not less than 0.85 (BEC Clause 8.5.1.3) Schematic wiring diagram / drawing no attached Document ref. no showing the details of the device, the T&C records and calculation of total power factor attached 										
For each	natic Speed n escalator liste leason:	ed in 1), pro	ovision for	activation		ction mode is mad	le?			

EMSD BEC 2018

Technical Data of Lift & Escalator Installation for Building Energy Code (BEC) 2018 (Please refer to Section 8, Code of Practice for Energy Efficiency of Building Services Installation 2018 Edition)

Part 3 – Escalator Worksheet (Please tick where applicable)	Pageof
 4) <u>Total Harmonic Distortion</u> (BEC Clause 8.6) For each escalator listed in 1), in respect of its total harmonic distor escalator to the building's electrical supply circuit or the circuit prot by the motor drive at no load rated speed (please tick where applic The total harmonic distortion is limited to the maximum allowab Clause 8.6.2) A harmonic correction device is installed at the motor control ce total harmonic distortion is reduced to a level limited to the max 8.6.2 (BEC Clause 8.6.3) 	tective device serving the escalator) produced cable) ble value specified in BEC Table 8.6.2 (BEC ntre of the motor drive such that the overall
□ Schematic wiring diagram / drawing no	attached
□ Photo ref. no	
Document ref. no	
5) <u>Metering and Monitoring Facilities</u> (BEC Clause 8.7) For each escalator listed in 1), for its electrical supply circuit for the voltages (all phase to phase and phase to neutral), currents (three-p factor, total harmonic distortion, energy consumption (kWh), powe	phrase currents and neutral), total power
(please tick where applicable)	
□ Metering devices are provided as specified in BEC Clause 8.7.1	
 Schematic wiring diagram / drawing no Photo ref. no Document ref. no 	attached
 The metering devices for the total harmonic distortion measurem 31st harmonic order (BEC Clause 8.7.2) 	
The measurement parameters are trended every 15 minutes and data. The monitoring facilities are capable of maintaining all dat (BEC Clause 8.7.3)	

1

conveyor Ref. No. Service / Public Service) length (m) width (mm) speed (m/s) power (kW) (BEC Clause 8.4.4) power (kW) (BEC Table 8.4.4) Factor Factor Distortion (THD %) Image: Conveyor Service) Image: Conv	Part 4 – Passenger Conveyor Worksheet Pageof (Please tick where applicable) Pageof										
Image: conveyor involved 1) Electrical Power (BEC Clause 8.4) (Please provide information in table below) (All under no-load condition at rated speed) Ref. No. Passenger (Non-public Service) Nominal length (mm) Rated (mm) Running active electrical power (kW) (BEC Table Service) Power (Factor Dever) Total Harmonic Distribution (THD %) (Please insert additional row if necessary) (Please insert additional row if necessary) <td colspan="10">Any installation of passenger conveyor involved?</td>	Any installation of passenger conveyor involved?										
1) Electrical Power (BEC Clause 8.4) (Please provide information in table below) (All under no-load condition at rated speed) Passenger conveyor Type (Non-public Service / Public Service) Nominal (mm) Rated (mm) Running electrical power (KW) (BEC Clause 8.4.4) Max allowed electrical power (KW) (BEC Table 8.4.4) Power Factor (BEC Table 8.4.4) (Please insert additional row if necessary) (Please insert additional row if necessary) Image: Conveyor (THD %) Image: Conveyor (BEC Table 8.4.4) Image: Conveyor (BEC Table 8.4.4) Image: Conveyor (BEC Table 8.4.4) Image: Conveyor (BEC Clause 8.4.4) (Please insert additional row if necessary) Image: Conveyor (Conveyor (BEC Clause 8.5.1) Image: Conveyor (BEC Clause 8.5.1) Image: Conveyor (BEC Clause 8.5.1) For each passenger conveyor listed in 1), in respect of its total power factor of the motor drive (at the isolator connecting the passenger conveyor to the building's electrical supply circuit or the circuit protective device serving the passenger conveyor to the building's electrical supply circuit or the circuit protective device serving the passenger conveyor is than 0.85 (BEC Clause 8.5.1.2 and 8.5.1.4 with calculation in accordance with BEC Appendix B) (please tick where applicable) Image: Convert factor is not less than 0.85 (BEC Clause 8.5.1.2 and 8.5.1.4 with calculation in accordance with BEC Appendix B) A power factor correction device is installed at the motor control centre of the motor drive to provide the compensati	□ Yes (If yes, please provide information in 1) to 4) below)										
(All under no-load condition at rated speed) Passenger (Non-public Service / Public Service) Nominal length (m) Nominal width (mm) Nominal Rated (m/s) Running active electrical power (kW) (BEC Table 8.4.4) Max allowed electrical power (kW) (BEC Table 8.4.4) Power Factor Total Harmonic Distortion (THD %) Image: Conveyor Image	🗖 No ins	tallation of pas	senger cor	nveyor invo	olved						
Passenger conveyor Ref. No. Type (Non-public Service / Public Service) Nominal length (m) Nominal width (mm) Rated speed (m/s) Running active (Pelctrical power (kW) (BEC Clause 8.4.4) Max allowed electrical power (kW) (BEC Table 8.4.4) Power Factor Total Harmonic Distortion (THD %) Image: Conveyor Ref. No. Public Service) Image: Conveyor (Please insert additional row if necessary) Image: Conveyor (Please insert additional row if necessary) Image: Conveyor (Please insert additional row if necessary) Image: Conveyor Please insert additional row if necessary Image: Conveyor (Please insert additional row if necessary) Image: Conveyor (Please insert additional row if necessary) Image: Conveyor Please insert additional row if necessary Image: Conveyor (Please insert additional row if necessary) Image: Conveyor (Please insert additional row if necessary) Image: Conveyor Please insert additional row if necessary Image: Conveyor (Please insert additional row if necessary) Image: Conveyor (Please insert additional row if necessary) Image: Conveyor Please insert additional row if necessary Image: Conveyor (Please insert additional row if necessary) Image: Conveyor (Please insert additional row if necessary) Image: Conveyor isted in 1), in respect of its total power factor of the motor drive (at the isolator connecting the passenger conveyor) at brake load rated speed (steps or pallets moving upward for conveyor with rise) Image: Convert factor is not less than 0.8	1) <u>Electrica</u>										
Passenger conveyor Ref. No. Type (Non-public Service) Nominal length (m) Nominal width (mm) Rated speed (m/s) active electrical power (kW) (BEC Table 8.4.4) Power Factor Total Harmonic Distortion (THD %) Image: Service / Public Public Service) Image: Service / Public Image: Service / Public Image: Service / Power Total Power Power Factor Total Power Image: Service / Public Power Image: Service / Public Image: Service / Power Total Power Power Factor Total Power Image: Service / Public Total Power Power Factor Total Power Image: Service / Public Image: Service / Public Image: Service / Public Image: Service / Public Image: Service / Public Image: Service / Public Image: Service / Public Image: Service / Public Image: Service / Public Image: Service / Public Image: Service / Public Image: Service / Public Image: Service / Public Image: Service / Public Image: Service / Public Image: Servic			(4	All under n	o-load co	ndition at rated s	peed)				
Image: Construction of the second system	conveyor	(Non-public Service / Public	length	width	speed	active electrical power (kW) (BEC Clause	electrical power (kW) (BEC Table		Harmonic Distortion		
 For each passenger conveyor listed in 1), in respect of its total power factor of the motor drive (at the isolator connecting the passenger conveyor to the building's electrical supply circuit or the circuit protective device serving the passenger conveyor) at brake load rated speed (steps or pallets moving upward for conveyor with rise) (please tick where applicable) The total power factor is not less than 0.85 (BEC Clause 8.5.1.2 and 8.5.1.4 with calculation in accordance with BEC Appendix B) A power factor correction device is installed at the motor control centre of the motor drive to provide the compensation such that the overall total power factor is not less than 0.85 (BEC Clause 8.5.1.3) Schematic wiring diagram / drawing no attached 			(Please ins	ert additio	,	sary)				
 For each passenger conveyor listed in 1), in respect of its total power factor of the motor drive (at the isolator connecting the passenger conveyor to the building's electrical supply circuit or the circuit protective device serving the passenger conveyor) at brake load rated speed (steps or pallets moving upward for conveyor with rise) (please tick where applicable) The total power factor is not less than 0.85 (BEC Clause 8.5.1.2 and 8.5.1.4 with calculation in accordance with BEC Appendix B) A power factor correction device is installed at the motor control centre of the motor drive to provide the compensation such that the overall total power factor is not less than 0.85 (BEC Clause 8.5.1.3) Schematic wiring diagram / drawing no attached Photo ref. no attached 											
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 serving the passenger conveyor) at brake load rated speed (steps or pallets moving upward for conveyor with rise) (please tick where applicable) The total power factor is not less than 0.85 (BEC Clause 8.5.1.2 and 8.5.1.4 with calculation in accordance with BEC Appendix B) A power factor correction device is installed at the motor control centre of the motor drive to provide the compensation such that the overall total power factor is not less than 0.85 (BEC Clause 8.5.1.3) Schematic wiring diagram / drawing no attached 	For each passenger conveyor listed in 1), in respect of its total power factor of the motor drive (at the isolator										
 The total power factor is not less than 0.85 (BEC Clause 8.5.1.2 and 8.5.1.4 with calculation in accordance with BEC Appendix B) A power factor correction device is installed at the motor control centre of the motor drive to provide the compensation such that the overall total power factor is not less than 0.85 (BEC Clause 8.5.1.3) Schematic wiring diagram / drawing no attached Photo ref. no attached 	serving the passenger conveyor) at brake load rated speed (steps or pallets moving upward for conveyor with a rise)										
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compensation such that the overall total power factor is not less than 0.85 (BEC Clause 8.5.1.3) Schematic wiring diagram / drawing no attached Photo ref. no attached											
Photo ref. no attached											
	Schematic wiring diagram / drawing noattached										
Document ref. no showing the details of the device, the T& records and calculation of total power factor attached	Dod rec	cument ref. no. ords and calcul	ation of to	otal power	factor att	sh ached	nowing the deta	ails of the d	evice, the T&C		

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(Please refer to Section 8, Code of Practice for Energy Efficiency of Building Services Installation 2018 Edition)

Part 4 – Passenger Conveyor Worksheet (Please tick where applicable)	Pageof
 (Please tick where applicable) 3) <u>Total Harmonic Distortion</u> (BEC Clause 8.6) For each passenger conveyor listed in 1), in respect of its total harmonecting the passenger conveyor to the building's electrical sup serving the passenger conveyor) produced by the motor drive at n applicable) the total harmonic distortion is limited to the maximum allowal a harmonic correction device is installed at the motor control control total harmonic distortion is reduced to a level limited to the maximum allowal Schematic wiring diagram / drawing no. Photo ref. no. 	pply circuit or the circuit protective device to load rated speed (please tick where ble value specified in BEC Table 8.6.2 entre of the motor drive such that the overall aximum allowable value specified in BEC Table
Document ref. no	
4) <u>Metering and Monitoring Facilities</u> (BEC Clause 8.7) For each passenger conveyor listed in 1), for its electrical supply cir measurement of voltages (all phase to phase and phase to neutral total power factor, total harmonic distortion, energy consumption (kVA)	l), currents (three-phrase currents and neutral),
(please tick where applicable)	
Metering devices are provided as specified in BEC Clause 8.7.1	
Schematic wiring diagram / drawing no.	attached
□ Photo ref. no	_ attached
Document ref. no	showing the details of the device attached
The metering devices for the total harmonic distortion measure 31 st harmonic order (BEC Clause 8.7.2)	ement are capable of measuring at least up to
The measurement parameters are trended every 15 minutes an data. The monitoring facilities are capable of maintaining all da (BEC Clause 8.7.3)	

Form EE-LE

(Please refer to Section 8, Code of Practice for Energy Efficiency of Building Services Installation 2018 Edition)

Part 5 – Total Power Factor for Three-Phase Three-Wire Pageof Power Supply System												
1) <u>Calculatio</u>	on of 1	Fotal P	ower	Facto	r (Base	ed on	bec a	ppen	dix B)			
Lift / Escalator / Passenger		/leasure Voltage			pothesi e Volta			leasure Current		Calculated Measure Apparent Active		Calculated Total
Conveyor Ref. No	V ₁₂	V ₂₃	V_{31}	V_1	V_2	V_3	I ₁	l ₂	l ₃	Power (kVA)	Power (kW) ⁽²⁾	Power Factor
	(Please insert additional row if necessary)											
Remarks applio (1) The lir										on site.		

(2) The active power shall be read from metering devices based on two-wattmeter method.

Form EE-LE

1

Part 6 – Declaration								
I, Registered Energy Assessor, hereby declare that all the information contained in this form and in the substantiation materials attached have been thoroughly examined and well prepared to demonstrate the compliance with the Building Energy Code. I understand that any missing information, inconsistency and incorrectness on the submitted materials / information may result in jeopardizing the approval process and having the entire submission been rejected.								
Name of the REA:	Registration No.:							
Signature of the REA	Date:							
		DD / MM / YYYY						