ZERTIFIKAT ◆ CERTIFICATE ◆ 認証書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Italia

EU type-examination certificate

L/D 2014/33/EU, Ann. IV-B

Certificate no.:	**EATE 039/2**
Notified body:	TÜV Italia S.r.l Via Carducci,125 I-20099 – Sesto San Giovanni (MI)
Applicant/ Certificate holder:	EITA-SCHNEIDER (MFG) Sdn. Bhd. Lot 98218(P.T.69154), Jalan Astana 1/KU2,Bandar Bukit Raja 41050 Klang,Mukim Kapar, Daerah Klang, Selangor Darul Ehsan, Malaysia
Date of application:	2016-12-27
Manufacturer:	EITA-SCHNEIDER (MFG) Sdn. Bhd. Lot 98218(P.T.69154), Jalan Astana 1/KU2,Bandar Bukit Raja 41050 Klang,Mukim Kapar, Daerah Klang, Selangor Darul Ehsan, Malaysia
Product:	Traction driven elevator with separate machine room
Type:	LN 450-750-975-1275-1575-2040
Test laboratory:	TÜV Italia S.r.l Via Carducci,125 I-20099 – Sesto San Giovanni (MI)
Number of the test report:	UMA170703-01-722131661 Rev_2_722227550
Standards:	EN 81-20: 2014, EN 81-50:2014
Statement:	The model lift satisfies the essential safety requirements of the directive 2014/33/EU for the scope of application as stated in the Annex (pages1-4) to this EU type-examination certificate.
Date of issue:	2020-06-05
Date of first issue:	2017-08-30

This certificate is valid only if accompanied by the pertinent annex

ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO
PRD N° 081B
Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

TÜV Italia Srl Industrie Service
09
48
Notified Body

Alberto Carelli
Industry Service Director
TUV Italia S.r.l.

Notified Body Identification Number:
0948

Annex to the EU type-examination certificate
No. EATE 039/2

1. Scope of application:

Traction driven lift with separate machine room (MR 2:1)

1.1 Technical data – Range:

Type:LN	450-2040							
Rated load [kg]:	450	600	750	975	1275	1575	1800	2040
Number of persons:	6	8	10	13	17	21	24	26
Max. Useful area of the car [m²]: acc. to EN81-20 Art. 5.4.2 Table 6	1.3	1.6	1.9	2.35	2.95	3.56	3.88	4.2
Door width [mm]:	800 - 1200							
Door height [mm]:	2000 - 2300							
Max. mass of car [kg]:	900	950	1050	1150	1450	1700	2000	2300
Traction machine:	PM-Gearless Traction machines							
Position of the traction machine:	In a separate room above the shaft							
Controller:	Full selective collective control							
Rated speed [m/s]:	1.0 - 2.0							0.5- 2.0
Max. number of accesses to the car:	2							
Counterweight balance:	45% - 50%							
Diameter of suspension ropes [mm]:	10					11 - 12		12
Number of suspension ropes:	4			5	6	5 - 6		6
Min. breaking force of suspension ropes [kN]	49					62.6 - 69		69
Diameter of over speed governor rope [mm]:	6 - 8							
Min. breaking force of governor rope [kN]:	17 -28							
Suspension:	2:1							
Diameter of traction sheave [mm]:	400					440 - 485		485
Warping angle [°]:	160° – 170°							
Groove type:	Semi-circular with undercut							
Undercut angle β [°]:	95°							
Groove angle [°]:	30° – 35°							
Min. head room [mm]:	4700 - 5000							
Min. pit depth [mm]:	1600 - 2000							
Guide rails car ISO 7465 → oiled, dry/machined:	T75-3/A-B			T89/A-B		T114/B		
Guide rails counterweight:	T50/A or T75-3/A-B or T89/A-B							
Max. distance between the guide shoes of the car [mm]:	3800							
Max. distance between the guide shoes of the counterweight [mm]:	3400							
Max. distance between guide brackets [mm]:	2000							
Max. travel height [m]:	80							

1.1.1 **Recommended weight of the Compensation Chain:**

Rated Load [kg]	Car weight [kg]	Speed [m/s]	Max. Travel [m]	Weight of the Compensation Chain [kg]
450	900	1.0	60	0
		1.5		
		1.75		
600	950	1.0		0
		1.5		20
		1.75		50
		2		
750	1050	1.0		20
		1.5		40
		1.75		75
		2.0		100
975	1150	1.0	80	150
		1.5		190
		1.75		220
		2.0		250
1275	1450	1.0		200
		1.5		260
		1.75		275
		2.0		300
1575	1700	1.0		275
		1.5		350
		1.75		375
		2.0		400
1800	2000	1.0		275
		1.5		350
		1.75		400
		2.0		450
2040	2300	0.5		180
		1.0		300
		1.5		375
		1.75		450
		2.0		475

Note: For the intermediate values of the rated load, the car weight, the rated speed and the traveling height, the recommended weight of the Compensation Chain need to be calculated by the manufacturer.

1.2 List of safety components used

1.2.1 Safety gear:

Type	Certificate-No.	Notified Body	Permissible total weight [kg]	Surface condition of guide rail
QJB2500	EU SG-950	0036	min. 1200 – max. 4672/6000 max. tripping speed 3.23	machined and dry/oiled
AQQ125-01	EU SG-1019	0036	min. 785 – max. 2778 max. tripping speed 3.25 m/s	machined and dry/oiled
AQ32KB	LF/KSA/A-C-0103/16	0437	Min. 822 – max, 2800 max.Tripping speed 2.62	machined and dry/oiled

1.2.2 Combination of braking devices as ascending devices (Art.5.6.6) and uncontrolled movement of the car (Art. 5.6.7)

Type	Certificate-NB.	Notified Body	Permissible Brake torque Nm	Permissible tripping Turning (min^{-1})
FZD12A	EU BD 991	0036	2 x 900	300
DZD1-500	EU BD 1025	0036	2 x 922	223
PZD140	EU BD 968	0036	2 x 1699	159
PZD220A	EU BD 967	0036	2 x 2400	160
ZLZ-02	EU BD 958	0036	2 x 990	299
ZLZ-05	EU BD 959	0036	2 x 1625	248
ZLZ-08	EU-BD 943/2	0036	2 x 1563	258
FZD12C	EU-BD 1032	0036	2 x 1600	255
DB1-445-530	NL16-400-1002-179-31	0400	2 X 530	170/190
DB1-495-840	NL16-400-1002-179-32	0400	2 X 840	200,190
ZTW500-2X1050	NL13-400-1002-179-20	0400	2 X 920	120
ZTW	LF/KSA/A-C-0125/17	0437	2 X2400	133

1.2.3 UCM Control system:

Type	Certificate-No.	Notified Body	Manufacturer
LIMAX Safe SG/SC	TÜV-A-AT-1-15-0401-EUES-1	0408	ELGO-BATSCALE AG
LIMAX33CP	EU-ESD 030/1	0036	ELGO-BATSCALE AG
SM11B v.3.4	44 208 16050002	0044	STEP electronic
ENA3	TUV-A-AT-1-11-0282-EUES-3	0408	Variotech
REA3	TUV-A-AT-1-13-0358-EUA3-3	0408	Variotech

1.2.4 Over speed governor:

Type	Certificate No.	Notified Body	Tripping speed (m/s)	Comment
XSQ115-02	EU OG 263	0036	0.32– 3.55	Arresting device acting in up/down direction rope: 6-8 mm
XSQ115-12	EU OG 245	0036	0.32 – 3.55	arresting device acting in up/down direction rope:6-8 mm
XSQ115-13	EU OG 276	0036	0.59 – 3.34	arresting device acting in up/down direction rope:6-8 mm
EOS 300	TUV-A-AT-1-14-0385-EUGB-3	0408	0.41 – 3.55	arresting device acting both directions rope:6-8 mm
LK 315	EU-OG 186	0036	0.4 – 3.24	arresting device acting both directions rope:8-10 mm
XS3	LF/KSA/A-C-0185/17	0437	Max.3.23	arresting device acting in down direction rope:8 mm

1.2.5 Energy dissipation type buffers for car and counterweight:

Type	Certificate No.	Notified Body	Permissible total weight (kg)	Impact speed (m/s)	Number car / counterweight
HYF80B	EU B 061	0036	600 – 3000	max. 1,15	1 / 1

HYF175A	EU B 062	0036	600 – 3000	max. 1,84	1 / 1
HYF210C1	EU B 067	0036	600 - 3500	Max. 2.01	1 / 1
HYF275E	EU B 068	0036	860 - 3500	Max. 2.3	2 /1
YH80	LF/KSA/A-C-0109/17	0437	900 - 4250	Max. 1.0	1/1
YHB/160	LF/KSA/A-C-0086/16	0437	600 - 3500	Max. 1.5	1 or 2/1
YHB/210	LF/KSA/A-C-0087/16	0437	600 - 3500	Max. 1.75	1 or /1
YHA/275	LF/KSA/A-C-0088/16	0437	680 - 3500	Max. 2.0	1 or 2/1

1.2.6 Locking devices for landing doors:

Type	Certificate-No.	Notified Body	Type of landing doors
KS 209/S2	EU-DL 795	0036	One sided or centre-opening sliding
KS209/C2	EU-DL 763	0036	One sided or centre-opening sliding
40/10	NL16-400-1002-075-05	0400	One sided or centre-opening sliding
Premium	NL16-400-1002-075-07	0400	One sided or centre-opening sliding
01/C	EU-DL 810	0036	One sided or centre-opening sliding
EDD 161	EU-DL 803	0036	One sided or centre-opening sliding
MKG161-01	EU-DL 1021	0036	One sided or centre-opening sliding
MKG161-01 (2S)	EU-DL 1042	0036	One sided or centre-opening sliding

2.0 Conditions:

2.1 The lift must not be installed at locations with explosive atmosphere.

2.2 The temperature in the lift well must be ensured between +5° C and +40° C.

2.3 One copy of the electrical diagram, maintenance manual as well as operating manual including UCM test procedure must be kept at the operating location.

2.4 This system can be used for fire-fighting purposes, provided the installation and layout complier to DIN EN 81-72 or the national fire regulations of the country in which this lift to be installed.

2.5 Landing/car doors panels in compliance to EN 81-20 point 5.3.5 model: TKP161-05G05, Manufacturer NBSLM&E Technology Co. ltd (Shanghai)

3. Recommendations:

3.1 In order to place the lift, the requirements outlined in Directive 2014/33/EU Capital III Article 16 must be met. (Conformity Assessment Procedure).

3.2 In cases involving changes of or deviations from the inspected model lift which are not included under 1: "Scope of application", the notified body must either subject the lift to individual tests as

per Annex VIII of the directive 2014/33/EU or extend the scope of application.

3.3
- The technical dossier of each single installation shall contain pertinent documentation. test report made by an accredited laboratory, showing the compliance of:
- floor/car doors mechanical strength (force test and impact test) to the requirements listed in clause 5.3.5 of EN 81-20;
- car door locking device fulfilment to the requirements of EN 81-20 clause5.3.15.2 b) and EN 81-50, clause 5.2;
- car walls requirements to EN 81-20, clause 5.4.3.2.2 a), b) or, if made by glass, to EN 81-20 clause 5.4.3.2.3; mirrors or other glass finishes shall comply with mode B or C according to EN 12600:2002, annex C if broken;
- car floor, wall and ceiling finishes to requirements of EN 15501-1 as listed in clause 5.4.5 of EN 81-20;
- ropes terminations to EN 13411-6/7/8 as per clause 5.5.3 od EN 81-20.

3.4 The requirements of the EU Member States must be observed (e.g. well ventilation, oil resisting coat of paint in the well pit, fire protection, user-panel suitable for handicapped people), when the lift is being installed in a building.

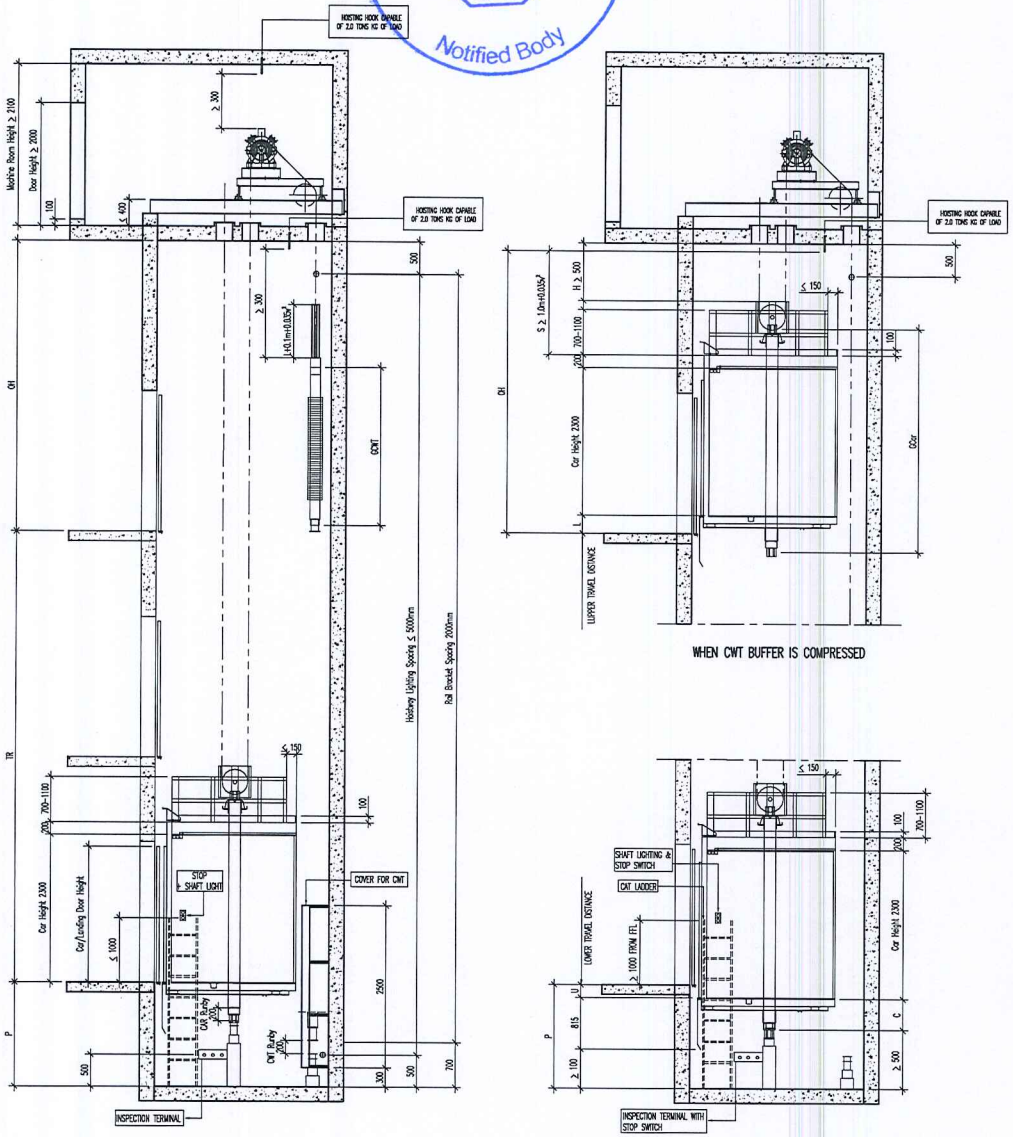
3.5 The following documents must be enclosed with the technical documentation of each lift as a minimum requirement:
- EU type-examination certificate no. EATE 039/1, dated 2018/10/09
- Drawings no.: LN 450-975 and LN 1275-2000 stamped with “TÜV-Italia 0948” dated “09/10/2018”
- Data sheet of lift system as per EN 81-20/50, Annex B, including list of safety components used, including specification of special features or deviations from the type-tested lift if applicable and the pertinent declarations of conformities
- Installation drawing of the lift system
- Wiring diagram with references to system-specific options No. AS380-ZLS (DLD02578)

3.6 The EU type-examination certificate must be used only in connection with the pertinent annex.

3.7 This EU type-examination certificate is based on the currently valid harmonized standard EN81-20/50:2014. If any changes or additions to this standard or for development of the state of the technology, this certification must be updated or re-edited.

Rated Load (kg)	Speed (m/s)	m²	mm											
		A	W1	D1	PO	PD	DB	SO	F	K	J	D	E	DF
450	1–1.75	1.17–1.30	1050	1150	800	470	580	200	294	575	294	210	810	610
600	1–2.0	1.45–1.60	1400	1050	800	470	580	200	219	700	219	220	800	610
750	1–2.0	1.73–1.90	1400	1250	800	570	680	200	219	700	219	210	910	710
975	1–2.0	2.15–2.35	1600	1350	900	620	730	200	219	800	219	220	950	760

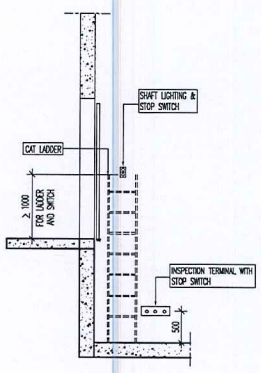
Rated Load (kg)	Speed (m/s)	mm										
		OH	P	L	U	S	H	C	CWTB(WB)	CWTL(WL)	GCWT	GCar
450	1	4400	1400	280	280	1520	500	300	220	935	3000	3300
	1.5	4550	1500	375	375	1575	555	300	220	935	3000	3300
	1.75	4700	1600	475	475	1625	605	300	220	935	3000	3300
600	1	4400	1400	280	280	1520	500	300	220	935	3200	3300
	1.5	4550	1500	375	375	1575	555	300	220	935	3200	3300
	1.75	4700	1600	475	475	1625	605	300	220	935	3200	3300
	2	4900	1800	475	475	1825	805	300	220	935	3200	3300
750	1	4400	1400	280	280	1520	500	300	220	935	3400	3300
	1.5	4550	1500	375	375	1575	555	300	220	935	3400	3300
	1.75	4700	1600	475	475	1625	605	300	220	935	3400	3300
	2	4900	1800	475	475	1825	805	300	220	935	3400	3300
975	1	4400	1400	280	280	1520	500	300	220	935	3400	3300
	1.5	4550	1500	375	375	1575	555	300	220	935	3400	3300
	1.75	4950	1600	475	475	1875	855	300	220	935	3400	3300
	2	5200	1800	475	475	2125	1205	300	220	935	3400	3300



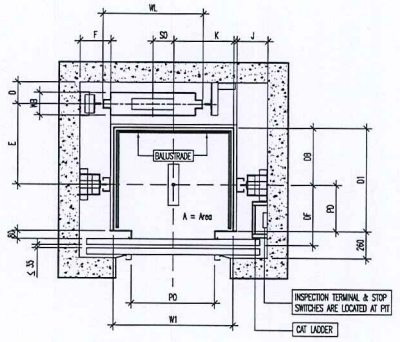
SHAFT VERTICAL SECTION

WHEN CWT BUFFER IS COMPRESSED

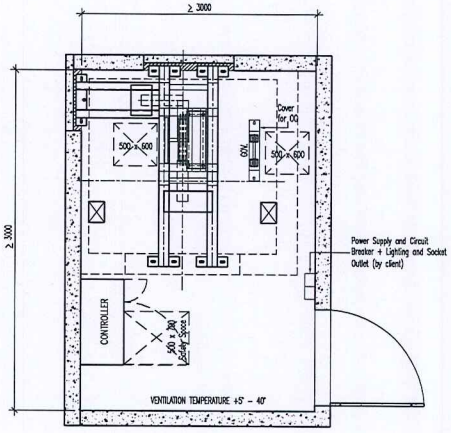
WHEN CAR BUFFER IS COMPRESSED



PIT DETAILS



SHAFT PLANE LAYOUT



MACHINE ROOM PLANE LAYOUT

Project Title

TO SUPPLY & DELIVERY LIFT SERVICES FOR PROJECT –

Owner / Developer

M&E Consultant

Main Contractor

Lift Contractor

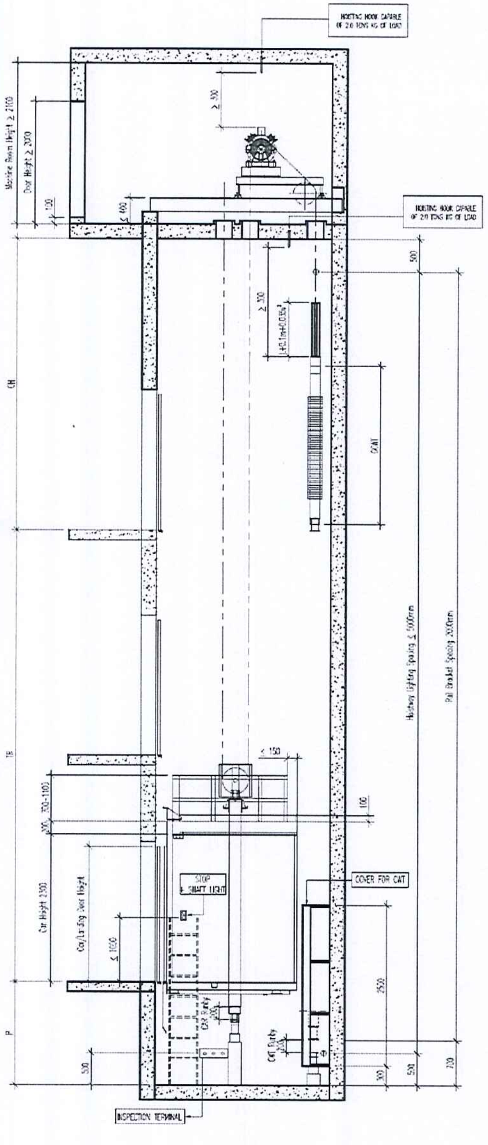
EITA-SCHNEIDER (MFG) SDN BHD
LOT 5, JALAN ASAM JAWA 16/15,
SECTION 16,
40200 SHAH ALAM,
SELANGOR DARUL EHSAN
TEL : 03 - 55410638
FAX : 03 - 55410536

Subject Of Drawing:

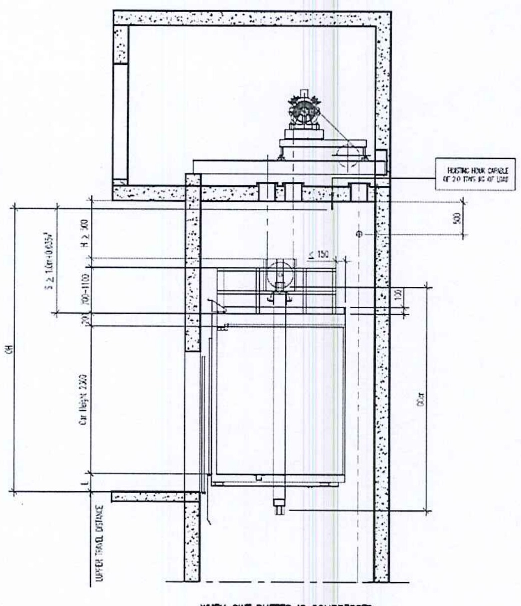
Project Name :	PASSENGER ELEVATOR MR ROPING 2:1 450KG~975KG SPEED 1.0~2.0M/S		
Filename :	–		
Scale :	NTS	Date :	04-MAY-2017
Drawn :	CMYONG	Checked :	EKCHAN
Approved :	CHTAN		
Drawing No :	LN450-975	Rev. No.	0

Rated Load (kg)	Speed (m/s)	m²	mm											
		A	WI	DI	PO	PD	DB	SO	F	K	J	D	E	DF
1275	1-1.75	2.71-2.95	1850	1500	1000	695	805	265	250	925	250	230	1065	835
1575	1-2.0	3.25-3.52	2050	1600	1100	745	855	265	300	1025	300	230	1115	885
1800	1-2.0	3.59-3.88	2250	1600	1100	745	855	265	250	1125	250	230	1115	885
2000	0.5-2.0	3.82-4.12	2250	1700	1100	795	905	265	250	1125	250	230	1165	935

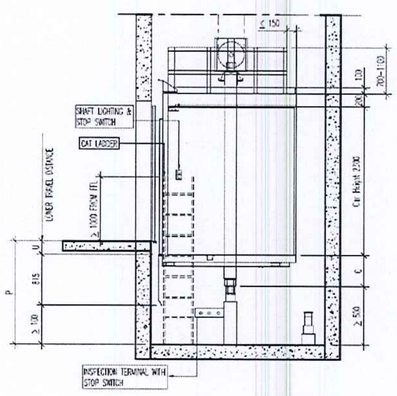
Rated Load (kg)	Speed (m/s)	mm										
		OH	P	L	U	S	H	C	CWTB(WB)	CWTL(WL)	GCWT	GCar
1275	1	4700	1450	280	280	1870	540	300	280	1275	3000	3600
	1.5	4800	1550	375	375	1925	545	300	280	1275	3000	3600
	1.75	4950	1600	475	475	1975	595	300	280	1275	3000	3600
1575	1	4700	1450	280	280	1870	540	300	280	1275	3200	3600
	1.5	4800	1550	375	375	1925	545	300	280	1275	3200	3600
	1.75	4950	1600	475	475	1975	595	300	280	1275	3200	3600
	2	4950	1800	475	475	1975	595	300	280	1275	3200	3600
1800	1	4700	1450	280	280	1820	540	300	280	1275	3400	3600
	1.5	4800	1550	375	375	1925	545	300	280	1275	3400	3600
	1.75	4950	1600	475	475	1975	595	300	280	1275	3400	3600
	2	4950	1800	475	475	1975	595	300	280	1275	3400	3600
2000	0.5	4700	1450	280	280	1870	540	300	280	1275	3400	3600
	1	4700	1450	280	280	1870	540	300	280	1275	3400	3600
	1.5	4800	1600	375	375	1925	545	300	280	1275	3400	3600
	1.75	4950	1800	475	475	1975	595	300	280	1275	3400	3600
	2	4950	1800	475	475	1975	595	300	280	1275	3400	3600



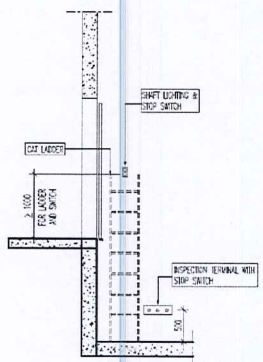
SHAFT VERTICAL SECTION



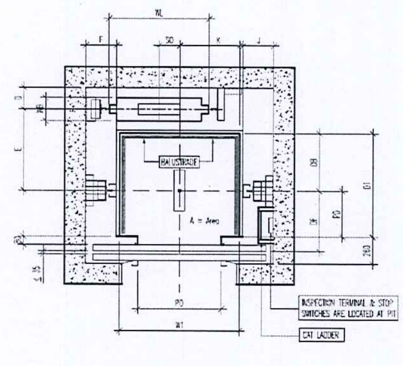
WHEN CWT BUFFER IS COMPRESSED



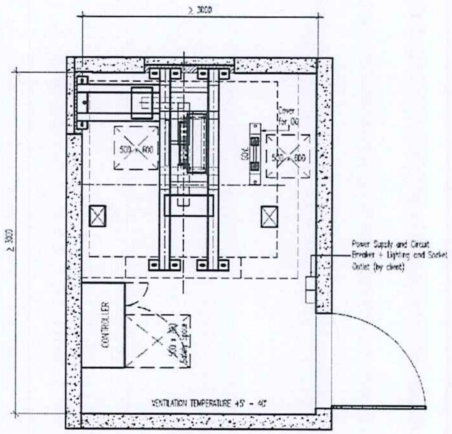
WHEN CAR BUFFER IS COMPRESSED



PIT DETAILS



SHAFT PLANE LAYOUT



MACHINE ROOM PLANE LAYOUT

TÜV Italia Srl Industrie Service
09 48
Notified Body

09 OTT 2018

Project Title

TO SUPPLY & DELIVERY LIFT SERVICES FOR PROJECT -

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Lift Contractor

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Project Name :	PASSENGER ELEVATOR MR ROPING 2:1 1275KG-2000KG SPEED 1.0-2.0M/S
Filename :	-
Scale : NTS	Date : 04-MAY-2017
Drawn : CMYONG	Checked : BKCHAN / Approved : CHTAN
Drawing No : LN1275-2000	Rev. No. 0