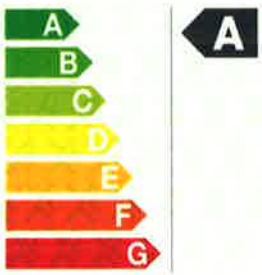
LIFTINSTITUUT

Energy Efficiency Certificate

Issued by Liftinstituut B.V.

Certificate number	NL20EPCL18867	
Object number.	-	
Address	Heuortsland 20 Hamburg	
User category	1	
No. of days in use per year	365	
Product description	Lift	
Nominal load	600	kg
Nominal speed	1,00	m/s
Trademark, type, serial no.	Vestner Aufzüge GmbH Advance 5 18867	
Name and address installer	Vestner Aufzüge GmbH Humboldtstraße 10 85609 Dornach	
Name and address owner certificate	Vestner Aufzüge GmbH Humboldtstraße 10 85609 Dornach	
Certificate issued on the basis of the following requirements	EN-ISO 25745-2:2015	
Performance level for running	1	
Performance level idle	1	
Performance level standby 5 min	1	
Performance level standby 30 min	1	
Date of examination	24-01-2020	
Annexes to this certificate	Report of Energy Efficiency measurement NL20EPCL18867	

Conclusion



The energy label shown is based on the energy efficiency measurement for the above mentioned lift

Issued in Amsterdam

Date of issue 27-01-2020

ing P.J. Peeters
Manager Certification

Certification decision by

LIFTINSTITUUT

Report of Energy Efficiency Measurement

Report belonging to certificate number	NL20EPCL18867	
Date of issue original certificate	27-01-2020	
No. and date of revision	-	
Subject	Energy efficiency labelling lift	
Requirements	EN-ISO 25745-2:2015	
Object number	-	
Project number	P190417	

1. General data

Name and address of installer	Vestner Aufzüge GmbH	
	Humboldtstraße 10	
	85609 Dornach	
Name and address of certificate holder	Vestner Aufzüge GmbH	
	Humboldtstraße 10	
	85609 Dornach	
Product description	Lift	
Date of examination	24-01-2020	
Examination performed by	E. Verkaik	

2. Basic data of lift

Address of lift	Heuortsland 20	
Trademark	Vestner	
Type	Advance 5	
Serial no.	18867	
Travelling height	15,84	m
Short travel height	6,00	m
No. of stops	7	
Nominal load	600	kg
Nominal speed	1,00	m/s
Average acceleration	0,20	m/s^2
Average jerk	0,10	m/s^3
Balance ratio	50	%
Control system	Arkel VA 5.5	
Drive control	Arkel Arcode	
Car light	LED	
(Estimated) no. of trips per day	70	

3. Measurements

Measuring equipment / serial number	Fluke 1732 / 42094218	
Date of calibration	2018-05	

The energy consumption is determined based upon the EN-ISO 25745-2:2015 method with an unloaded car. The energy consumption of ancillary power and main power is measured during 10 reference cycles. Also the energy consumption of ancillary power and main power is measured during 10 short cycles. One reference cycle is defined as a trip up and a trip down between the ultimate floors of the total travel height, including the doors active. A short cycle is defined as a trip up and a trip down between floors with a travel distance of at least one-quarter around the mid-point of the total travel height, including the doors active.

Also directly after a cycle, after 5 minutes and after 30 minutes, the energy is measured for one minute.

4. Results

Based on the EN-ISO 25745-2:2015 method the parameters which determine the energy efficiency are measured and calculated.
The relevant results are shown hereunder.

Measurement results

Door cycle time	12	s
Average travel distance	7,8	m
Operating days per year	365	
Power in idle mode	48,0	W
Power in standby after 5 min.	48,0	W
Power in standby after 30 min.	48,0	W

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BTW-nummer:
NL 810412950 B01

Ancillary power during cycles	43,4	W
Energy consumption in 10 reference cycles	17,60	Wh
Energy consumption in 10 short cycles	9,40	Wh
Temperature control room	20	°C
Temperature lift well	20	°C
Temperature car	20	°C

Calculation results

Usage category table 1, determined on the (estimated) no. of trips per day	1	
Load factor acc. to EN-ISO 25745-2:2015	0,88	
Percentage of average travel distance table 2	49	%
Percentage of average car load table 3	8	%
Percentage time ratio in idle table 4	13	%
Percentage time ratio 5 min. table 4	55	%
Percentage time ratio 30 min. table 4	32	%
Average running energy per metre	0,05	Wh/m
Start/stop energy consumption	0,49	Wh
Running energy of an average cycle with empty car	1,82	Wh
Daily running energy	55,84	Wh
Running time per day	0,52	h
Daily non-running (idle/standby) energy consumption	1127,02	Wh
Total energy consumption per day	1182,87	Wh
Total energy consumption per year	432	kWh
Specific running energy for the average running cycle	0,17	mWh/kgm
Specific running energy for the reference cycle	0,14	mWh/kgm

5. Conclusions

Performance level for running	1	
Performance level idle	1	
Performance level standby after 5 min	1	
Performance level standby after 30 min	1	
The lift belongs to energy class	A	

Based upon the results of the energy efficiency measurement Liftinstituut B.V. issues an energy efficiency certificate.

The certificate is only valid for the product mentioned under 2.

The certificate is issued based on the requirements that are valid at the date of issue. Liftinstituut reserves all rights regarding the validity of the certificate with respect to changes in the requirements or changes in the state of the art of the product.

Prepared by:

E. Verkaik
Product Specialist Certification

Certification decision by:

Annex 1. Overview of previous revisions of certificate and report

REVISIONS OF CERTIFICATE AND BELONGING REPORT

Rev.	Date	Summary of revision
-	27-01-20	Original

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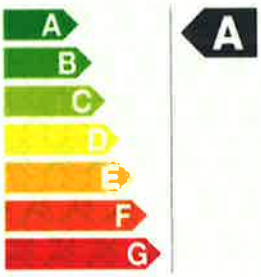
LIFTINSTITUUT

Energy Efficiency Certificate

Issued by Liftinstituut B.V.

Certificate number	NL20EPCL18875	
Object number.	-	
Address	Heuortsland 20 Hamburg	
User category	1	
No. of days in use per year	365	
Product description	Lift	
Nominal load	1000	kg
Nominal speed	1,00	m/s
Trademark, type, serial no.	Vestner Aufzüge GmbH Advance 5 18875	
Name and address installer	Vestner Aufzüge GmbH Humboldtstraße 10 85609 Dornach	
Name and address owner certificate	Vestner Aufzüge GmbH Humboldtstraße 10 85609 Dornach	
Certificate issued on the basis of the following requirements	EN-ISO 25745-2:2015	
Performance level for running	3	
Performance level idle	1	
Performance level standby 5 min	1	
Performance level standby 30 min	1	
Date of examination	24-01-2020	
Annexes to this certificate	Report of Energy Efficiency measurement NL20EPCL18875	

Conclusion



The energy label shown is based on the energy efficiency measurement for the above mentioned lift

Issued in Amsterdam

Date of issue 27-01-2020

ing P.J. Peeters
Manager Certification

Certification decision by

LIFTINSTITUUT

Report of Energy Efficiency Measurement

Report belonging to certificate number	NL20EPCL18875	
Date of issue original certificate	27-01-2020	
No. and date of revision	-	
Subject	Energy efficiency labelling lift	
Requirements	EN-ISO 25745-2:2015	
Object number	-	
Project number	P190417	

1. General data

Name and address of installer	Vestner Aufzüge GmbH	
	Humboldtstraße 10	
	85609 Dornach	
Name and address of certificate holder	Vestner Aufzüge GmbH	
	Humboldtstraße 10	
	85609 Dornach	
Product description	Lift	
Date of examination	24-01-2020	
Examination performed by	E. Verkaik	

2. Basic data of lift

Address of lift	Heuortsland 20	
Trademark	Vestner	
Type	Advance 5	
Serial no.	18875	
Travelling height	20,75	m
Short travel height	9,00	m
No. of stops	8	
Nominal load	1000	kg
Nominal speed	1,00	m/s
Average acceleration	0,20	m/s^2
Average jerk	0,10	m/s^3
Balance ratio	50	%
Control system	Arkel VA 5.5	
Drive control	Arkel Arcode	
Car light	LED	
(Estimated) no. of trips per day	70	

3. Measurements

Measuring equipment / serial number	Fluke 1732 / 42094218	
Date of calibration	2018-05	

The energy consumption is determined based upon the EN-ISO 25745-2:2015 method with an unloaded car. The energy consumption of ancillary power and main power is measured during 10 reference cycles. Also the energy consumption of ancillary power and main power is measured during 10 short cycles. One reference cycle is defined as a trip up and a trip down between the ultimate floors of the total travel height, including the doors active. A short cycle is defined as a trip up and a trip down between floors with a travel distance of at least one-quarter around the mid-point of the total travel height, including the doors active.

Also directly after a cycle, after 5 minutes and after 30 minutes, the energy is measured for one minute.

4. Results

Based on the EN-ISO 25745-2:2015 method the parameters which determine the energy efficiency are measured and calculated.
The relevant results are shown hereunder.

Measurement results

Door cycle time	12	s
Average travel distance	10,2	m
Operating days per year	365	
Power in idle mode	24,0	W
Power in standby after 5 min.	24,0	W
Power in standby after 30 min.	24,0	W

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Ancillary power during cycles	54,6	W
Energy consumption in 10 reference cycles	532,96	Wh
Energy consumption in 10 short cycles	265,42	Wh
Temperature control room	20	°C
Temperature lift well	20	°C
Temperature car	20	°C

Calculation results

Usage category table 1, determined on the (estimated) no. of trips per day	1	
Load factor acc. to EN-ISO 25745-2:2015	0,93	
Percentage of average travel distance table 2	49	%
Percentage of average car load table 3	5	%
Percentage time ratio in idle table 4	13	%
Percentage time ratio 5 min. table 4	55	%
Percentage time ratio 30 min. table 4	32	%
Average running energy per metre	1,15	Wh/m
Start/stop energy consumption	3,38	Wh
Running energy of an average cycle with empty car	30,20	Wh
Daily running energy	979,11	Wh
Running time per day	0,57	h
Daily non-running (idle/standby) energy consumption	562,39	Wh
Total energy consumption per day	1541,50	Wh
Total energy consumption per year	563	kWh
Specific running energy for the average running cycle	1,38	mWh/kgm
Specific running energy for the reference cycle	1,32	mWh/kgm

5. Conclusions

Performance level for running	3	
Performance level idle	1	
Performance level standby after 5 min	1	
Performance level standby after 30 min	1	
The lift belongs to energy class	A	

Based upon the results of the energy efficiency measurement Liftinstituut B.V. issues an energy efficiency certificate.

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Prepared by:

E. Verkaik
Product Specialist Certification

Certification decision by:

Annex 1. Overview of previous revisions of certificate and report

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