

IQ55-10E
 Rev: 3
 Date: 2024-10-17

Environmental document, Motala 2000.

Extent

Content of declaration:

- Energy consumption
- Transport
- Hazardous material
- Noise levels
- Life span and service

Energy consumption

Energy consumption depends of number of starts and load in the lift.

Motala 2000 hoisting motor is asynchrony motor of 0,75kW

Calculations are based of normal use and a load of 100 kg, total travel of 2,5 metre and 8 starts per day (2920 starts per year).

Total travel distance is 7300 meter per year.

The consumption for lifting is 2,24Wh and 0,26Wh downwards with load of 100kg, this leaves as average consumption per metre is 1,24Wh.

Speed 0,15m/s (9metre per min)

All light is LED.

Shaft light 20W, automatic switched off after 15s after use.

Idle consumption 15-39Wh, depending of battery charging, options etc.

Energy per year

Energy consumption for a std Motala 2000 with travel of 2.5 metre

	<u>kWh /Year</u>
• Idle consumption	235
• Travel consumption	9
• Total:	244

Transport

Lift delivery is either direct to site or via DC.

Hazard material

Motala 2000 contains electronic material, lead battery and geal oil

Internally these material are handled according to Swedish law.

When replacing any material shall local legislation be considered.

noise levels

Noise levels depends of building structure and the measurements are made with an air gap or insulation material between the lift, building structure and rooms.

Position:	dB(A)
On platform	57
Next door apartment from elevator	25

Normal Life span, maintenance and recycling.

Motala 2000 are designed to last 30 years under normal usage and normal environment.

Under normal usage (2920 starts per year) and maintenance are performed according to our recommendations. The below list is expected usage and replacements needed.

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Material

Gear oil.	Lifetime.
Lubrication door locks.	0.1 cl per Year.
Battery emergency backup.	Change every 2 years.
Backup battery lift computer.	Change every 5 years.
Chains.	Lifetime.

All metal (about 92% of total weight) is recyclable.

We at Motala lifts are proud to be part of the building product assessment (Byggvarubedomningen) from 2023.

What is the building product assessment (Byggvarubedomningen).

The building product assessment's assessments are based on the product's chemical content but also on several life cycle criteria.

The criteria are drawn up by a criteria group consisting of expert representatives from our member companies.

If necessary, we also get help from external experts.

They are some of the biggest Swedish company's when it comes to building.

- NCC AB
- Stockholm City
- PEAB Sverige AB
- SKANSKA Sverige AB
- Gothenburg City

Byggvarubedomningen was formed in 2006 through a merger of these associations, which meant that Sweden's largest and most important property owner launched a standard for environmental assessments of construction products.

The actors developed assessment criteria based on which all products were to be assessed and created a database to be able to collect all assessments in one and the same place.

Please visit their website if you need further information. [Byggvarubedomningen](#)

“We drive the development of better building material choices for a sustainable world today and in the future.”

