

Holmen

meet
the
mill

with
denmaur 
A CARBON BALANCED COMPANY

Introduction

Holmen's business is built around the forest ecocycle and the renewable products that can be created from it. Its business areas are Forest, Wood Products, Board and Paper and Renewable Energy. With a workforce of 3 500 people, Holmen creates value for shareholders, customers and society.

Holmen's history dates back over 400 years, Today, with 1.3 million hectares, they are one of the Sweden's largest forest-owners, contributing to doubling the growth of Swedish forestry over the past 100 years.

Holmen say they 'grow houses', harvesting trees sustainably to create sawn timber for construction. Residual products from this process are used in the manufacture of innovative and high-quality paper and board products, as well as powering the mills who manufacture these products.



Facts & Figures

Holmen has two paper mills in Sweden - Braviken (1977) and Hallsta (1916). Between them, they produce papers for the graphical, book, packaging and office/stationery markets.

Braviken Mill

SWEDEN

Location	160km South of Stockholm
Pulp Species	Spruce
Products	Holmen UNIQ
	Holmen BOOK
	Holmen XLNT
	Holmen INNRR
	Holmen SURE

Hallsta Mill

SWEDEN

Location	100km North of Stockholm
Pulp Species	Spruce
Products	Holmen EPIC
	Holmen VIEW
	Holmen TRND
	Holmen BOOK
	Holmen XLNT
	Holmen NOTE
	Holmen GIFT

7,500,000 tonnes
2023 CO₂ climate contribution
benefit

4 Paper Making Machines
over **2** production units

Sustainability

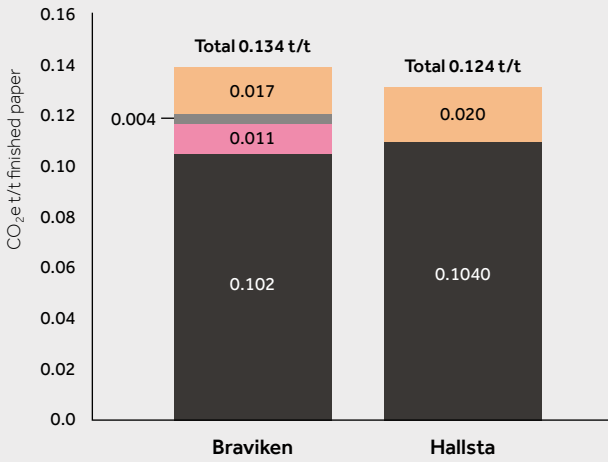
Both mills are located at ports, ideal for export and contributing to the low transport carbon footprint. Furthermore, both mills have extraordinarily low, third party verified, production carbon footprints, providing low scope 3 carbon emissions for those with carbon reduction and net zero targets.

Production and product certificates:



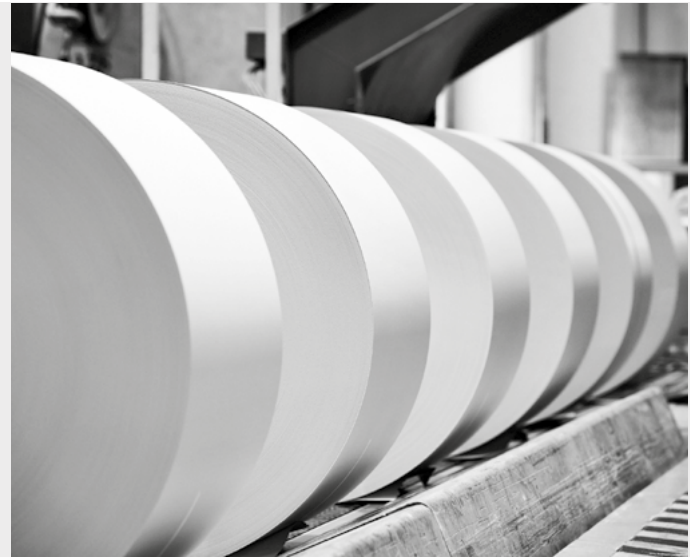
*Carbon Balancing is provided as an additional option by Denmaur

GHG Emissions – cradle to gate



- **GHG – Fossil Fuel Combustion**
CO₂, CH₄, N₂O
- **GHG – Biomass Fuel Combustion**
CH₄, N₂O (biofuel are considered CO₂ neutral)
- **GHG – Purchased Electricity**
Reflects the emissions from electricity production in the country where the mill is located
- **GHG – Raw materials**
GHG emissions associated with production and transportation of raw materials

Cradle to gate, 2023 Q3. Source: Fisher Solve®, ©2024 Fisher International, a ResourceWise company



Eco Cycles

40 – 45,000 saplings are planted for each year.

Trees are harvested at maturity for timber manufacture - at maturity their carbon absorption rate declines. Some trees, logs and log parts are too thin for making sawn timber and so they're debarked and turned into wood chips for paper manufacture.

In addition, wood chips as a by-product from Holmen's sawmills are used as a raw material for paper making, and other sawmill by-products such as bark, dry wood shavings and sawdust from Holmen's sawmills are collected for use as bioenergy.

Woodchips are screened, refined and then stored to reduce exposure to sunlight. This ensures a supply of fresh fibres for paper production with a naturally higher brightness level requiring a reduced need for bleaching.

In the pulping process, the fresh fibres are separated without losing strength and elasticity. The quality of the fresh wood-fibres enables Holmen's paper to be comparatively bulkier, providing strong end-use products and, at end of life, a strong base for use as recycled paper fibre.

Fibre sludge, a residual product from the paper manufacture, is composted to become soil reinforcement to support the growth of new trees.



Product Feature – Holmen EPIC

An uncoated calendared paper that offers a viable alternative to current wood-free papers. Ideal for magazines and direct mail, the bulk properties of Holmen Epic enable the use of a lighter paper weight than would normally be expected.

Produced: Hallsta Mill

Weight range: 52, 55, 60, 65, 70g/m²

Product Carbon Footprint:

124kgs CO₂e per tonne of paper production

Transport Carbon Footprint:

69kgs CO₂e per tonne from Hallsta to Denmaur Bescot



FOCUS ON 60g/m²

Whiteness	100CIE
Brightness	85%
Opacity	95%
Bulk	1.5cm ³ /g
Thickness	90µm

Paper thickness comparison example:

Holmen EPIC 60g/m²

90µm

Woodfree Gloss 115g/m²

- A publication requiring 20 tonnes of Woodfree Gloss 130g/m² would require only 9.23 tonnes of Holmen Epic 60g/m² whilst achieving the same thickness.
- An A4 48pp publication based only on Woodfree Gloss 130g/m² weighs 195g.
- An A4 48pp publication based only on Holmen Epic 60g/m² weighs 90g.

Logos to Use on Holmen products



OR



Samples, Dummies and Quotes

To request...

- A4 samples
- A dummy in your specification
- And/or a quote against your requirements in any of the Holmen grades produced at Hallsta or Braviken...

Please contact info@denmaur.com