

Fact sheet on life cycle assessment

Northcote Aquatic & Recreation Centre, Northcote, VIC



With the publication of product-specific environmental product declarations, RUBNER makes visible its contribution to **environmentally conscious planning and construction**.

The life cycle assessment of RUBNER products considers the potential environmental impact over the entire product life cycle.

POTENTIALS AFTER REMOVAL

Recirculation possibilities: reuse, recycling or energy recovery

50-years Design Life

USE

- Highest **load carrying capacity**
- **Durability**
- Positive contribution to **indoor climate**

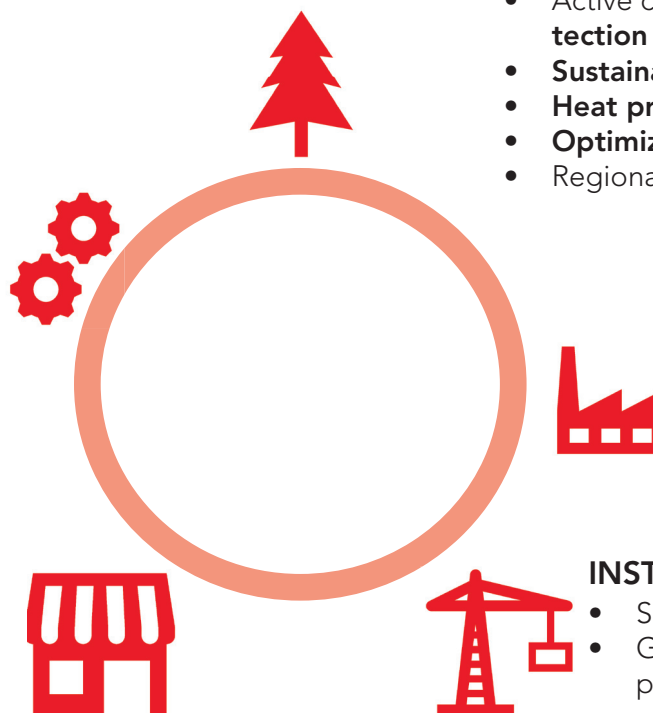
TREE GROWTH & FORESTRY PROCESS

- Active contribution to **climate protection**
- **Sustainable forestry**
- **Heat production** from biomass
- **Optimized glue system**
- Regional **supply chains**

FURTHER PROCESSING

INSTALLATION

- Short execution time
- Gentle construction site process



Northcote Aquatic & Recreation Centre



Key facts:

- 2.000 m² (40 m³) of **prefabricated roof elements**
- 359 m² (10 m³) of **nordpan solid timber panels**
- 315 m³ **glulam**



Thus are:

- 278 t CO₂e stored directly in the wood;
- 42 t CO₂e emissions generated from the production - cradle to site

Thanks to the net storage effect, the Northcote Aquatic & Recreation Centre provides an **active contribution to climate protection of around 236 t CO₂e**.

This storage effect corresponds to the greenhouse gas emissions of



≈ **8 Australians** per year



≈ the combustion of **484 barrels of oil**



≈ truck transport over **216,586 ton-kilometres**



In Austria, where Rubner Group sawmill RHI is located, about 30 million cubic metres of wood grow every year. Basing on this pace, the **365 cubic metres** used for the structure of the Northcote Aquatic & Recreational Centre **have grown in about 7 minutes**.

