

# LAMINATION, PAPER INDUSTRY



## IRT HEDSON INDUSTRIAL SOLUTIONS

We develop, manufacture and supply custombuilt IRT drying and curing solutions to all industrial sectors.

IRT is a trademark belonging to Hedson Technologies, an environmental engineering corporation and world leading supplier of cleaning, curing and lifting equipment.



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## PROJECT DESCRIPTION

- **Type of industry:**  
Pulp and paper manufacturing
- **Place:**  
Sweden
- **Project number:**  
300990

## OBJECTIVE

- Transfer of heat in small spaces and at high speed:
- Curl correction of board (uneven temperature on top and bottom on coil manufactured board results in curled board.)
  - Increasing foil glue temperature 120-160° before laminating to board.

## PROCESS

- **Parts, material and dimensions:**  
Solid board 80 g/m<sup>2</sup>, 1440 mm wide, continuous web
- **Type of transport, static/dynamic, speed etc:**  
Coil of board and coil of foil to be laminated at 0-60 m/min
- **Material (wet-dry paint/other), max temp allowed etc:**  
Preprinted plastic foil with glue

## IRT HEDSON SOLUTION

- **Chosen heating method, cassette dimensions, time, temperature increase/min, effect etc:**

Space saving shortwave IR heating technique.

Distribution by SingleHeaters.\*

Curl correction: 2 pcs SingleHeater, (width 1440 mm, length in machine direction 120 mm). 2 x 12,3 kW.

Foil lamination: 3 pcs SingleHeater, (width 1440 mm, length in machine direction 180 mm) 3 x 12,3 kW.

\* SingleHeater modules are available in standard sizes, 117-1124 mm, 0,2-4 kW, lamp cover in glass or mesh, internal or external fan, elliptic or parabolic gold-coated reflectors, manual or automatic output (non-contact pyrometer). Ready to install and connect to 230V, 400V or 480V.

