Fact Sheet

Coating Top ply Center ply Back ply



Paper manufacturing

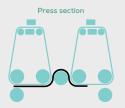
3-PLY DESIGN

Kallima's 3-ply design sandwiches a layer of high-yield pulp between top and bottom layers of bleached chemical pulp.

STOCK PREPARATION

In the stock preparation area, a water-pulp slurry – or **stock** – is made by mixing various pulp grades with specific proportions of chemical additives, to achieve **desired paper properties.**







3-PLY MACHINE

Kallima Coated Cover is made on a 690-foot-long Tampella Fourdrinier machine.

The stock is diluted to 0.5% consistency (99.5% water) before entering the first section of the machine, called the **headbox**.

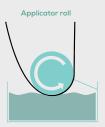
The pulp mixture reaches the Fourdrinier's **wire**, a continuous screen used for draining the water out. There is one headbox and Fourdrinier per ply produced. A single web is formed before entering the **press section** at a consistency of 25%.

When it leaves the press section, the sheet is at 48% consistency (52% water).

The web passes over a series of cast-iron cylinders, called **dryers**, to remove moisture through evaporation.

The web leaves the dryer section for the coating stage at a consistency of 92% to 96%.

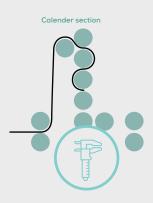




COATING KITCHEN

Coating is made by mixing pigments, binders and additives. Each coating formulation is designed for specific end uses.

Applicator rolls apply coating layers to both sides of the web.



FINISHING

At the finishing stage, heated calender rolls squeeze the sheet to achieve a smooth, even and glossy surface.

Calendering is also used to control **caliper**, or thickness, of the coated board.

The board is then reeled onto a spool and sent to the winder, where it is cut to specific roll sizes. Rolls are wrapped in moisture-repellent packaging, labeled and shipped.

QUALITY CONTROL

Our attention to Quality Control ensures a high degree of consistency. Paper that fails any of the tests performed by highly trained technicians in a state-of-the-art laboratory is rejected.

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