



Circular and Sustainable Building Materials

Kevin Line
VP of Manufacturing
8/14/2024



Who is Rise?

- Building Materials Manufacturer providing siding and trim to the US market
- Recycler of landfill destined material “trash to cash”
- Circular composite product made from fibrous and composite waste
- Located in Mankato, MN

Timeline

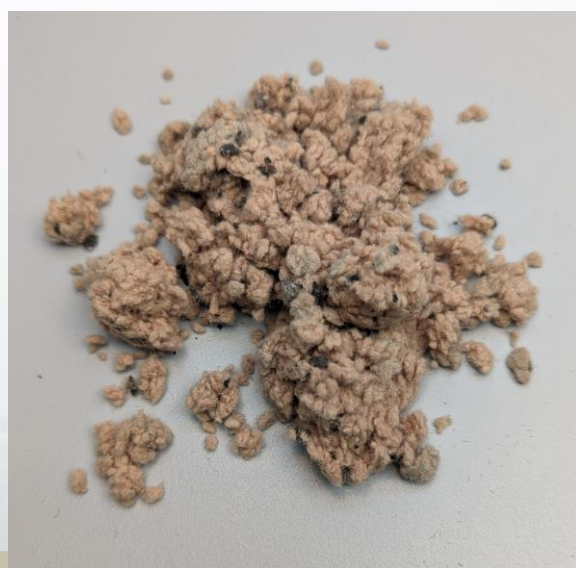
- Technology development in 2016 from Fiberon Decking
- Plant operational since 2022
- Joint Venture with CertainTeed 2024
- Taking composite waste in Q4 2024

Input Raw Materials

There are several raw materials that are used in our siding and trim.

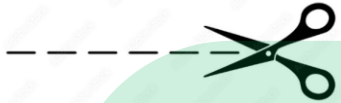
- Polyesters and nylons from carpet and vehicle linings
- Fiberglass batt and roll insulation scrap
- Composite fiberglass scrap or end of life products
- High-performance facing paper
- Resin and water proofing agent

Raw Materials



Process Overview

1



Fiber Sizing

- Sheets, bales, panels, etc.
- Final 5-15mm long

2



Resin Blending

- Fibers blended with resin and wax

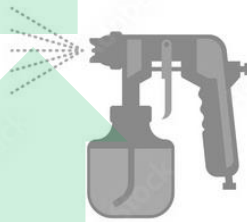
3



Mat Forming

- Multi-layer construction
- Phoenic paper facer
- Fine and course fiber layers

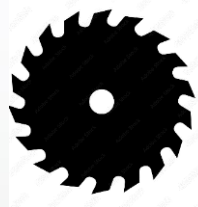
6



Finishing and Packaging

- Automated finishing line
- Apply primer, paint
- Package for customers

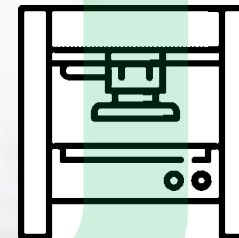
5



Panel Cutting

- Masters cut to panels, then to siding and trim

4



Pressing

- High pressure and temperature
- Panels consolidated and cured

RISE Siding



LAP SIDING

Nominal Sizes

Thickness	Width	Reveal	Length
3/8"	5.25"	4"	13'4"
3/8"	8.25"	7"	13'4"
3/8"	12"	11"	13'4"

Lap Siding comes in primed and prefinished.

PANEL SIDING

Nominal Sizes

Thickness	Width	Length
3/8"	4'	10'*

*Often applied as the base for board and batten look.
Panel Siding comes in primed.

All siding comes in smooth and textured finishes.

RISE Trim



RISE TRIM

Nominal Sizes

4/4" x 3" x 13' 4"*
4/4" x 4" x 13' 4"
4/4" x 6" x 13' 4"
4/4" x 8" x 13' 4"
4/4" x 10" x 13' 4"
4/4" x 12" x 13' 4"

5/4" x 3" x 13' 4"***
5/4" x 4" x 13' 4"
5/4" x 6" x 13' 4"
5/4" x 8" x 13' 4"
5/4" x 10" x 13' 4"
5/4" x 12" x 13' 4"

*Often applied as batten.

**Often applied as batten; only comes finished as textured and primed.
All others listed come in both smooth and textured finishes.

Textured and smooth trim comes in primed only.

Questions?

Opportunity

- Rise can provide an opportunity to recycle difficult materials such as fiberglass composites and mixed streams
- Development projects for future applications and greater diversity of material streams
- Open to discuss waste material streams



Kevin Line
VP of Manufacturing

+1 615 838 9217

Kevin.line@risebuildingproducts.com

As a lifelong innovator, Kevin has led product development and manufacturing teams, including at Lockheed Martin and Louisiana Pacific. Through his work, his teams have created and launched new products in aerospace, software, and building materials. Now at Rise Building Products he leads all manufacturing and product development.