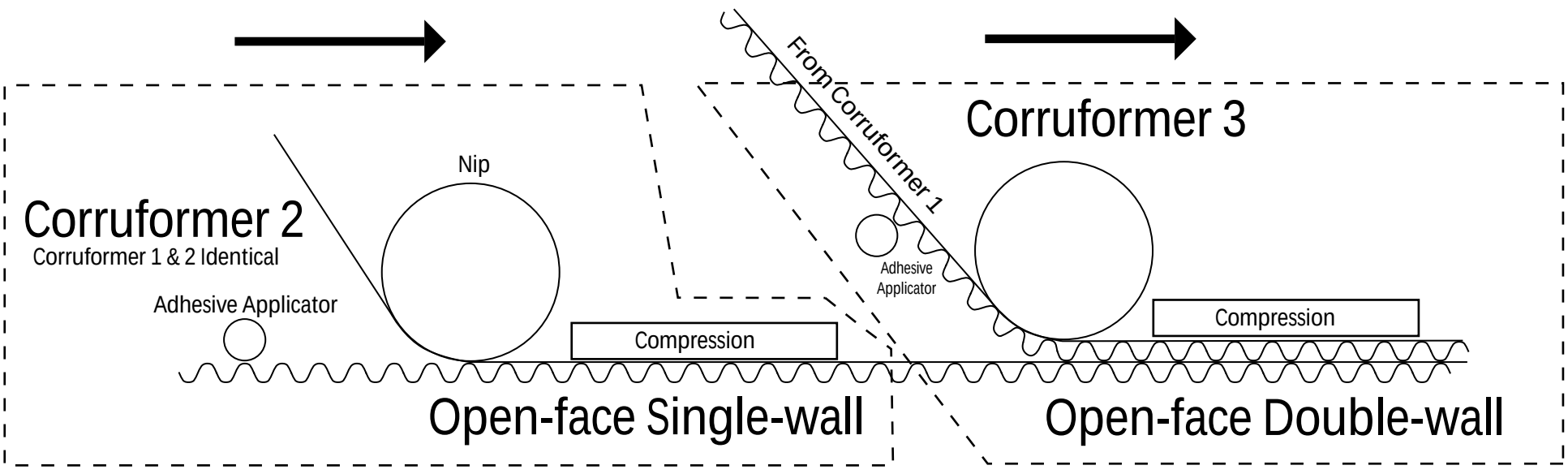
INNOMATION - Corrucomb® Process Description

The Corrucomb process for creating low core density material begins with the forming of 0.5" flutes which are bonded to a paper liner to form open face single-wall Corrucomb. Two separate in-line Corrucomb machines are used to create continuous Corrucomb single-wall.

The two layers of single-wall are combined to form open face double-wall in such a manner as to phase shift the flute tips so they meet tip to tip.

Corruforming Conceptual Illustration

Image does not depict machine construction



Note: Corruform 1 & 2 can be inverted.

Note: Corruform 3 would be inverted.

Phenolic Saturated Paper is fluted.
Flute tips receive adhesive.
Second layer of unformed paper is laminated to flute tips.

OFSW* from CF1** receives adhesive on unsupported flute tips.

CF1 flute tips are laminated to supported CF2.

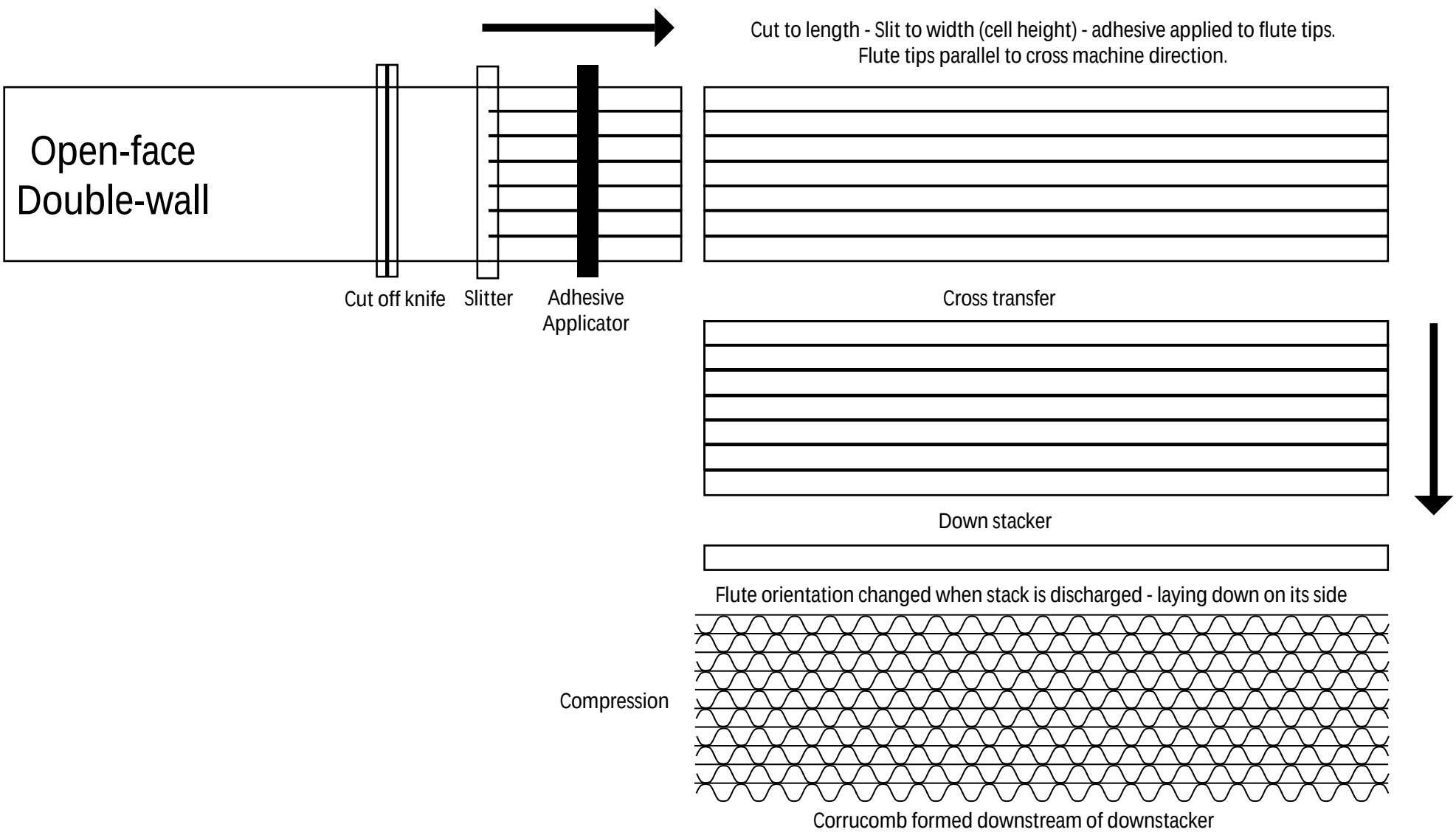
* Open face single wall **Corruformer (n)

This continuous double-wall Corrucomb web is then conveyed to a cut-off knife and slitter. The slit width determines the final core thickness in the downstream Corrucomb forming process.

After being cut-off (max length 50') the Corrucomb slits are cross-transferred keeping flute tip to flute tip alignment and formed into a continuous width of Corrucomb which is then slit and cut to length for panel construction.

Layup Conceptual Illustration

Image does not depict machine construction



The key features Corrucomb® are:
1) Phase shifted flute tip alignment to form open Corrucomb cells, the final product is expanded Corrucomb.
2) Variable core thickness dependent on double-wall Corrucomb Slit Width.
3) Straight sided flute profile for rigid set and dual radius flute tips for greater adhesive surface and glue fillet forming.