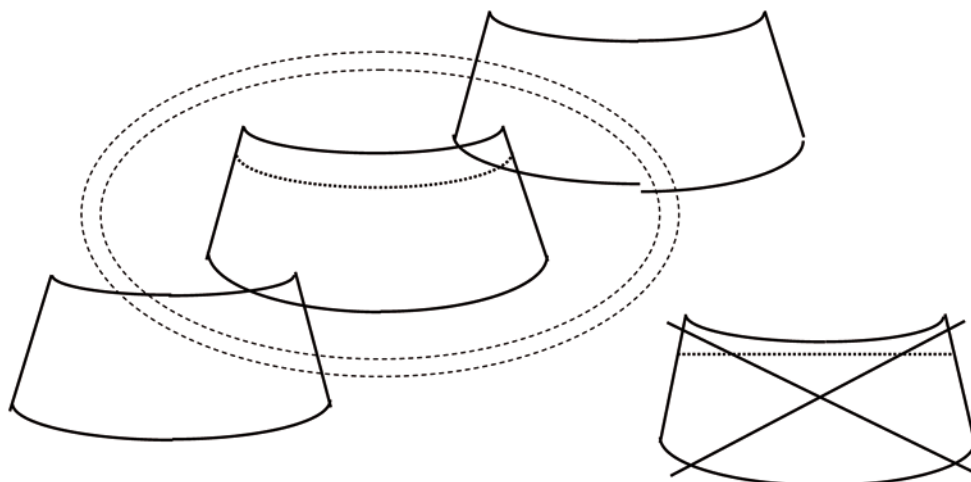




PVB SHAPING OR STRETCHING FOR WINDSCREEN PRODUCTION



PURPOSE

PVB SHAPING OR STRETCHING prepares PVB interlayer sheets for the production of windscreens. It gives both commercial and economical benefits to the windscreen producer:

- ◆ increases the **aesthetic and comfort values** of top-shaded windscreens
- ◆ gives **savings of 15-25%** with top-shaded PVB and **10%** with uniformly coloured PVB

APPLICATION

Clear, tinted and top-shaded PVB can be processed. The line is well adapted for shaping both refrigerated and interleaved PVB. It is equipped with automatic interleaf rolling-out system.

The machinery can be used for:

- ◆ **shaping** top-shaded or uniformly coloured PVB with the minimum radius of 2100 mm
- ◆ **stretching** PVB to optimal thickness within quality requirements
- ◆ **cutting** clear and tinted interlayer at any desired angle between 0-25°
- ◆ *shaping, stretching and cutting machines can also be operated individually*

PRODUCTION CAPACITY

SHAPING: The operating speed for shaper SMF 3: 3 m/min, for SMF 6: 6 m/min

CUTTING: Max. speed for FCM cutter is 6 m/min. When used as a part of the line the cutting machine is synchronised with the shaper or relaxation module.

SAVINGS

In optimal use, the line

- minimises waste
- offers considerable savings by more efficient use of PVB
- decreases stock items



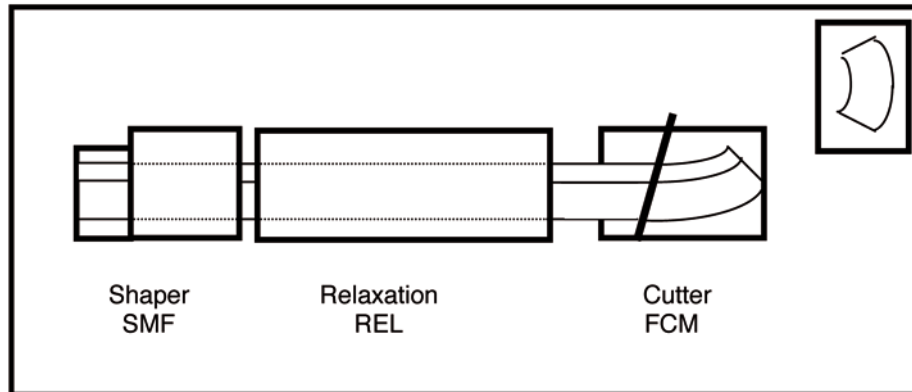


PVB SHAPING OR STRETCHING

LAY-OUT AND AMBIENT CONDITIONS

The equipment should be installed in a dust-free area, preferably in clean room conditions.
 The whole line, SMF+REL+FCM should be positioned in a room with a temperature of $20 \pm 2^\circ\text{C}$ and RH of 25-30%.

LAY-OUT



Area required for basic version with automatic cutting: 4.5 m x 13 m x 3 m height.

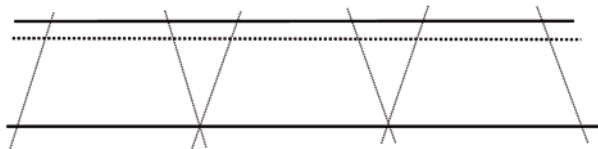
OPTIONS

According to the user's needs:

- ◆ separate cutting with drive, operation width 1250 – 1700 mm
- ◆ antistatic treatment of PVB
- ◆ manual stackers
- ◆ humidity measurement

PVB CONSUMPTION

Conventional Process



Top-shaded

Renault 19
 PVB m²/ sheet 1,21

Cut from roll

845 x 1440

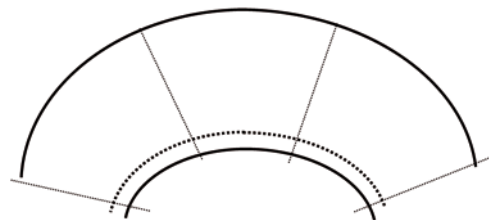
Uniformly Coloured

Renault R 19
 PVB m²/sheet

Cut from roll

1,10

PVB Shaping and Cutting Line



Shaped from different PVB widths

830 x 1210 840 x 1170
 1,00 0,98

Stretched

930 x 1060
 0,99

