HOW TO DESIGN WITH

some technical information







WHAT IT IS



BEFORE YOU START; TIPS & TRICKS

FL is applied mainly flat

When applied on separate panels that are installed next to each other take into account:

- batch and the roll number
- production direction of the sheet



Example: Kitchen fronts & Shufl







HOW TO MAKE A STABEL PANEL



FLOORING SYSTEMS



2D bending diameter >50mm

FLOORING SYSTEMS



2D SHAPING

Aalto University Artek X Forbo Linoleum challenge https://www.forbo.com/flooring/nl-be/inspiratie-referenties/student-challenges/pl93ib#panel_0

3D SHAPING

What are the boundaries when 3D shaping the linoleum?





3D SHAPING

Vacuum forming



Pressing (cold)

Fixing by adhesive use wood glue instead of contact glue







3D SHAPING

Forming by pressure and mold

Pressing (cold) Fixing by gluing









3D shaped trays



Thin carrier made of hard pressed flax and hemp fibres

3D SHAPING





Step 1: Forming the carrier 150-200°C



Step 2: Applying and adhering Furniture Linoleum ≤ 70°C



3D SHAPING







INCREASING THE FLEXIBILITY

FL without paper backing

The FL backing can be mechanical removed

By sanding off the backing a thin layer of linoleum is obtained that is more flexible than regular Furniture Linoleum





CNC cutting and routing



X-,Y- and fixed depth

CUTTING AND ROUTING





CNC

Oscilating knife



X-,Y- and fixed depth

CUTTING AND ROUTING



Lampshade by Marie-Louise Velthuizen



laser engraving



Focused laser light evaporates Linoleum

DECORATING





furniture linoleum DECORATING

laser engraving

cost effective

by using vector lines that are single passed by the laser beam

instead or pixel based raster images



Vector based files



Pixel based files



furniture linoleum DECORATING

examples

Laser engraving of Pinboard

and of Furniture Linoleum



Pin board



Furniture Linoleum



marmoleum[®] signature

DECORATING

example

Laser engraving of Marmoleum

Marmoleum Signature collection



designing-with-marmoleum/marmoleum-signature-tiles



embossing

Pressing and embossing so called "Präge"

embossing FL with preheated metal stamp

50°C

Pressure ; 4N/mm2



DECORATING





CC2

cleaning & maintenance

Initial cleaning







REPAIRING

restoring light scratches





Thanks for your attention!

