

PREMIUM FOILED DOORS - PRODUCT INFORMATION

Competitive features of Kensa's Premium foiled doors:

- UV-protection. The door retains its color through the years.
- scratch protection
- thickness and strength of foils
- no harmful substances are released
- high heat tolerance
- resistance against moist. An excellent choice to humid spaces.
- cleaning. A premium foiled door is easy to keep clean.
- a Finnish high quality product

Manufacturers of foils: Renolit, Bonlex, Gislaved
Foils manufactured in Germany & Italy

Foil product information

Material: PVC-foil

Thickness: 0,3-0,6 mm

Auto-flammability: Not self-igniting

Dissolvment to water: Does not dissolve

Solvent percentage: Organic solvents under 1 %

Stability and reactivity:

No dispersal when used appropriately

No dangerous reactions

No dangerous decay products are known

Product has no dangerous effects to health

Product does not endanger water systems

Waste treatment:

Can be recycled, must be destroyed according to official regulations.

PVC-foil is plastic waste.

Products shall be handled and stored in a warm indoor space.

MDF - furniture doors should always be stored in a warm and dry space (humidity max 60%).

Kensa's Premium foiled doors

Kensa Ltd. uses so called hard German and Italian 0,4 - 0,6mm thick so called hard foils in its production. A hard foil is produced layer by layer and consists of basic layers of foil, surface lacquer and primer. Layers are attached together by melting. A foil which consists of layers is hard and thick which makes the foil more difficult to modify. Because no glue is used as a binder, the foil tolerates a higher temperature in the production of doors. A high temperature at production stage guarantees a good heat resistance in the final product. Thanks to the layered structure of the foils we use, the corners of doors don't fade in color when the doors are pressed. Furthermore, the foil retains its' pattern and does not stretch in an irregular way.

The use of plasticizing agents has been minimized in the production of hard foils, which means they are the most environmentally friendly alternative in the production of foiled doors. Hard foils are stable i.e. at no stage are dangerous substances released into the environment. The foils used by Kensa are scratch-resistant (surface lacquer) and have UV-protection, which ensures the foil doesn't change in color.

Production

Premium foiled doors are made out of MDF-board. The backside is white melamin. Firstly the blanks are sprayed with glue that reacts with heat.

The pressing of Kensa's foiled doors happens in 3 stages. Our German Wemhöner pressing machine presses the foil into the blanks with the help of high temperature and pressure.

1. The foil is heated to 110 °C so it becomes elastic.
2. The foil is sucked into the blanks' profile with the help of underpressure.
3. Membrane-pressing; the foil is reheated and pressed into the door using a heat conducting membrane. Membrane pressing ensures the glue joint becomes secure. Thanks to Vacuum-Membrane system the residual heat tolerance of doors is high. The doors are finalized at a cutting line which also sands sharp edges smooth and cleans the reverse side of the doors.

Heat resistance of Premium foiled doors:

complies with requirements set by SFS- and EN - standards and DIN -norms.
Heat resistance range is from -40 to +80 °C and temporarily 100 °C.

It is recommended that one checks the outer temperature of the oven frame during installation. If the temperature of the frame is above recommended values, one should use heat protection lists. (EN- standard 60335-2-6: highest allowed temperature 85°C when oven is on at 200°C for a duration of 1 hour.)