



Roller blind system Smart Universal



The OPALVARIO® Smart Universal doesn't only make a stylish and designer orientated shading of building indoor spaces; it is also an extremely functional roller blind system for light regulations for monitors at working places, because it ideally uses the natural day light as well as it is a glare protection, which also keeps the clear sight to outside accordingly to EU-standards.

This system is also in its operability highly variable and without chain block movable in any position. The OPALVARIO® Smart Universal is available with a classical shade film from up to down or as back pull roller blind. Therewith this system offers numerous applications in object- and also in private sections.

The special film system of the shade films are provided with brilliant technical sun protection values, so that the working ergonomic this important sight to outside world obtains. Furthermore the highly reflecting exterior side of the film offers an efficient heat protection.

It creates additionally a pleasant atmosphere, which works positively of health and sense of well being, and has positive effects such as increasing the efficiency by the employees.

The processing of selected materials guarantees the customized systems an extreme reliability, long life cycle and a high operation comfort. Beside the high functionality, this mellow technique of OPALVARIO® roller blinds is enough to satisfy

high expectations, is maintenance-free and makes variable and many-faceted usages for sun protection possible.

By constant innovation in the developing sector, producing and processing of the systems and films as well as the certification according to DIN EN ISO 9001, HAVERKAMP products lay new standards according to the quality, functionality and life cycle.

This descent and compact roller blind system was specially developed for the object sector. Very small profile measurements and clear lines fulfill the standards of modern architecture. Serially is this system with a cassette in size of 33 x 33 mm provided, as side guide are three variations to choose. The guide profiles also work as the carrying function of the system, the installation is made on the window frames or between the glass ledges. For a stepless shade film positioning, the roller blinds are operated with a pull at the operating grip of the end profiles.

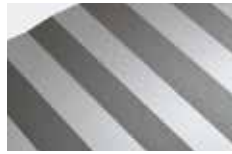
The shade film can be chosen from the enormous selection of the standard programs of the OPALFILM® roller blind films.

Different light transmissions, tinted and imprinted variations of the film can be chosen and satisfy individually demands.

Film embossing



Diamant embossing

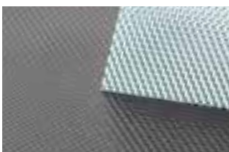


Glatt Stabila embossing

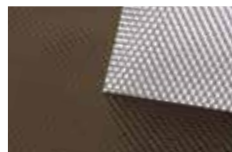


Diamant Stabila embossing

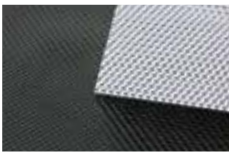
Film colors



silver/grey



silver/bronze



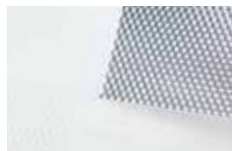
silver/black



grey/grey



silver/silver

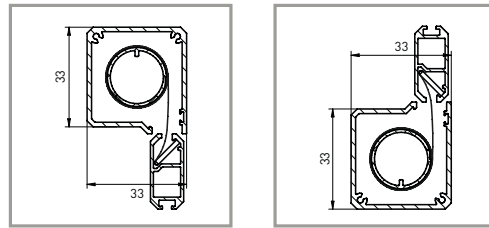


silver/white

Film variants

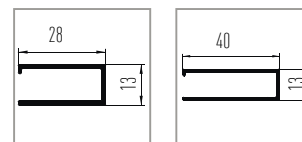
- Outer side either metallised or tinted
- Extensive range of colors
- Visibility from inside to outside is preserved
- Self-tinting screens available as option

System Design



One-piece, four sides closed aluminum cassette, cross section 33x33 mm with screwed plastic caps at sideways. Winding shaft and a profile chamber with brush debarring toolholder and plastics glides maintain a low-noise and friction in the lateral guide profiles. Colors can be chosen of the standard system: white (RAL 9016, plastics white) and silver (RAL 9006, plastics grey) as well as all other RAL colors (plastics mostly black).

Lateral guide



Optional can be chosen as side guide the profiles 28mm and 40mm for covering the hanging guidance. All profiles are made of extruded aluminum, ends are plastics caps. For an accurate allowance we provide you our support.

Drive

Move the end profiles in the desired direction for an exact, step-less positioning of the shade film in all desired directions.

Mounting

By fitting the cassette, glued or screwed fastened side guide profile, on the frames or between the glass ledges. If the installation is made between glass ledges, you can optionally utilize in a brush tool holder, or an overlaid shade light slit coverage.