





# “LIVE LIFE IN THE DETAILS”

## THE SYSTEM

WINDCOLOR® is a well established business with over 30 years of experience. It has operated successfully and has gained popularity amongst architects and contractors in South Africa and Botswana. Recently Duro Pressings (Pty) Ltd acquired WINDCOLOR®. This acquisition compliments the Group's existing product range with offering of an exclusive window and door system.

WINDCOLOR® is an integrated system of cold-rolled galvanized steel sections, fittings and gaskets for making windows, doors and doorframes. The WINDCOLOR® system is an architect's dream as it allows the designer to design windows and doors in almost any size and any colour.

The WINDCOLOR® system has been designed with an Italian sensitivity to detail and consideration to all fenestration needs namely; strength, durability, reliability, functionality of its fittings, air and watertight properties, heat and sound insulation, fire-resistance, protection, easy and quick installation and low maintenance.

A winning feature of the WINDCOLOR® system is the incredible strength of cold-rolled tubular steel sections. This gives architects and designers the versatility to utilize larger window and door openings that would be otherwise impossible in other materials, for example aluminium and hot-rolled steel sections. The system's slender sections do not compromise the structural performance of the product, whilst creating increasingly more elegant and bright windows and doors.

WINDCOLOR® products are manufactured from galvanized, pre-painted powder coated sections resulting in corrosion resistant and low maintenance products. The windows and doors come with an integrated glazing system and are supplied fully glazed and can accommodate numerous types of glass, including double glazed units. The WINDCOLOR® windows and doors are simple and easy to install.

The performance of WINDCOLOR® products have been trailed and tested, meeting the needs of every design requirement, as well as conforming to the National Building Standards.

WINDCOLOR® - it is now possible to colour your world.

## ADVANTAGES OF WINDCOLOR®

- Integrated system of sections, fittings and glazing gaskets/seals for every type of envisaged window or door
- Slender sections yet able to guarantee maximum structural performance to make increasingly more elegant and bright window/door frames and curtain walls
- Performance guaranteed by tests that meet every design requirement and are in conformity with the CE marking
- High levels of strength and corrosion resistance, long life, simple and low-cost maintenance
- Reduced surface area of section compared to overall surface area of the window/door, ensuring a low u-value of the finished product
- Natural and essentially ecological material, 100% recyclable
- Double glazing available
- Reduced assembly times and simple application of fittings

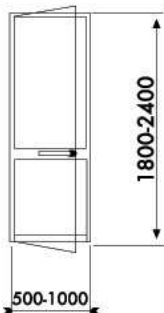
## SPECIFICATIONS

- Material - sections obtained from steel strip hot-dip galvanized with the Sendzimir system followed by a skin pass and then mechanically jointed for extra strength.
  - o Thickness - 15/10
  - o Physical characteristics - FePO2 GZ 200 (200g/m2 zinc coating on both surfaces)
  - o Reference standards - UNI EN 10142/3/7; EURONORM 143
  - o Surface treatment - top coat with oven-baked polyester powder coatings after preparation of the substrate by cleaning and application of primer, available in all powder-coated colours or to designer request
- Fittings - all the fittings for the system are sized for the declared capacity loads and made in suitable materials for use with galvanized steel sections.

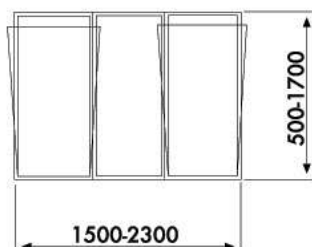
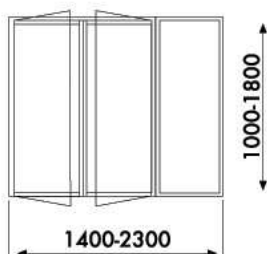
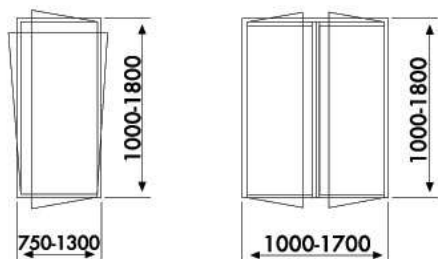
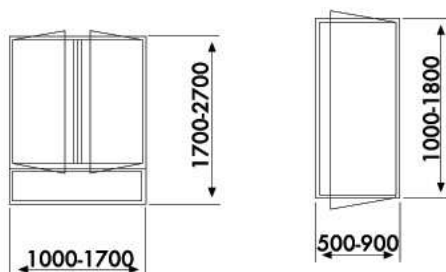


# WIND FIT

## DOOR



## WINDOWS



The WindFit system component is a simple frame and is aesthetically pleasing in its' essential design. The system is universal, its versatility being practically unlimited with regard to use (curtain walls, windows with fanlight or fixed lower light, bottom-hinged and top-hinged, etc.) It is also particularly suitable for finishing work (small entrance doors, glazed areas, stair wells, fixed windows, basements, etc.)

## RANGE WINDOWS

- "Top hung" - outwards opening
- "Bottom hung" - inwards opening
- "Side hung" - either internal or external opening
- "Fixed panel".

## DOORS

- Single/ Double doors, either internal or external opening
- Available in any size and colour.

## ACCESORIES

The assembly accessories and fittings of the WindFit component guarantees fast, safe assembly and fitting, also thanks to the high quality and technology of the materials:

- galvanised steel caters for sash and the frame joints;
- die-cast alloy is used for the hinges and locking systems of the sashes and panels.

## PERFORMANCE

The sturdiness combined with the elasticity of the WindFit component frame makes it perfectly adequate to stand up to wind or rain or extremes of temperature, in accordance with standards and regulations force. The performance of a WindFit frame assembled in a workmanlike manner with the possibility of an openable surface area of up to 3 sq.m, is as follows:

### RESISTANCE TO WIND LOAD

Up to class V2a, in accordance with UNI standards (160km/h). The steel elastic module and the stiffening provided by the profiling process determine these factors. In wider spans (large patio doors, curtain walls, extra wide frontages etc.) the whole WindFit frame is made with suitably sized and durable modules and coupling joints.

### AIR FILTRATION

Up to class A3, in accordance with UNI standards (less than 2 cu.m/h per linear metre of openable joint at a pressure of 200Pa). This result is due to a continuous glazing gasket and a wide rebate gasket.

### WATERTIGHTNESS

Up to class E4, in accordance with UNI standards (static pressure over 500 Pa). This has been made possible by using an exclusive system of rebating and pressure-compensating joints. The result is excellent protection against rain even under the most unfavourable conditions of exposure of the building (upper floors, facing north or north-east, etc.)

### HEAT INSULATION

All frames made with WindFit component may have **double glazing** installed as well as single glazing. The reduced surface area of the metal sections ensure an overall average transmittance of K 4.5 - 4.9 with single glazing and K2.8 - 3.2 with double glazing plus considerable energy saving thanks to the reduced heat loss obtained by cutting out draughts. When using double glazing: U-Value (W/m<sup>2</sup>k 2.9)

### SOUND-PROOFING

The WindFit component guarantees excellent acoustic comfort thanks to the evenness and compactness of all its parts and perfect adhesion to the masonry. The rebate gasket, applied to the whole openable perimeter, eliminates the possibility of any echo. Double glazed units can dramatically dampen noise pollution - STC 42.

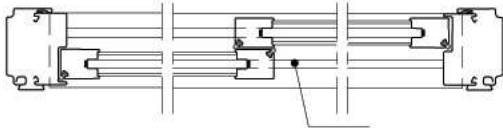
### DIMENSIONS

The WindFit component offers the possibility of installing frames of different heights and widths according to the performance required, all to CNR-UNI-10012 standards.

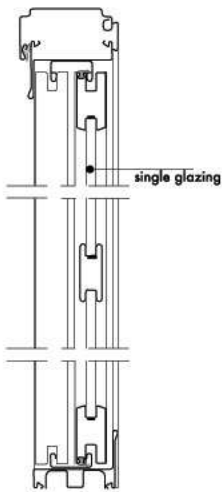


# WIND SLIDE

## HORIZONTAL



## VERTICAL



single glazing

single glazing

The sturdiness and compactness of the WindSlide system guarantees excellent performance and safety even when used in extra wide spans.

## RANGE WINDOWS

- Single or double sliding window sashes

## DOORS

- Single/ Double sliding doors
- Available in any size and colour

## PERFORMANCE

The drastic reduction in possible infiltration and consequent energy savings offer interesting possibilities of reducing the overheads of public premises. The performance of a WindSlide frame up to 4 sq.m, assembled in a workmanlike manner, is as follows:

### RESISTANCE TO WIND LOAD

Up to class V2a, in accordance with UNI standards (160km/h). This performance is possible thanks to special reinforcements inside the meeting stiles.

### AIR FILTRATION

Up to class A3, in accordance with UNI standards (less than 2 cu.m/h per linear metre of openable joint at a pressure of 100Pa).

### WATERTIGHTNESS

Up to class E3, in accordance with UNI standards (static pressure over 300 Pa). This has been made possible by the continuous glazing gasket and special technical features on the closing mechanism:
 

- the frame-bearing roller assembly is housed in a special slot to guarantee perfect adherence of the lower and upper gasket to the sill and head respectively of the outer frame during closing
- A simple, specially contoured handle locks the meeting stiles together and at the same time performs a lateral counter-thrust action of the sashes or panels
- a special space made on the frame jamb allows perfect adherence of the gasket or seals of the stiles to the outer frame

### HEAT INSULATION

All frames made with WindSlide component may have **double glazing** installed as well as single glazing. The reduced surface area of the metal sections ensures an overall average transmittance of K 4.5 - 4.9 with single glazing and K2.8 - 3.2 with double glazing plus considerable energy saving thanks to the reduced heat loss obtained by cutting out draughts.

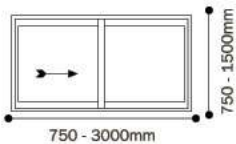
### SOUND-PROOFING

The WindSlide component guarantees excellent acoustic comfort thanks to the evenness and compactness of all its parts and perfect adhesion to the masonry. A special sealing gasket, applied to the whole openable perimeter, eliminates the possibility of any echo. Double glazed units can dramatically dampen noise pollution - STC 42.

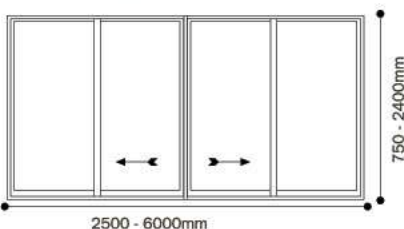
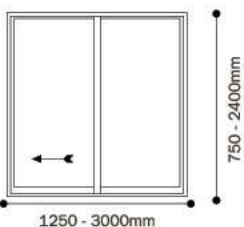
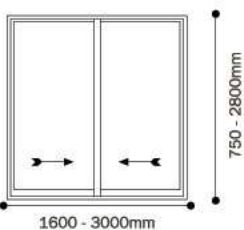
### DIMENSIONS

The WindSlide component offers the possibility of installing frames of different heights and widths according to the performance required, all to CNR-UNI-10012 standards.

## SIZE PARAMETERS



## DOOR



# 10 ESSENTIAL FEATURES OF THE WINDCOLOR SYSTEM

## STRENGTH

A winning feature of frames made with the Windcolor system is the particular strength of the cold-rolled tubular steel sections. The superior strength of rolled sections compared to extruded, pressed or any other type of shaped components in the manufacture of frames has already been well established.



## DURABILITY

The Windcolor system ensures perfect aesthetic coupled with functionality. The painting cycle consists of 12 treatment stages in successive tanks with electronic control of dipping times, application of a cathophoretic primer and a top coat with polyester powders. Subsequent machining therefore presents no problems, while the highest performance requisites are satisfied.



## RELIABILITY

There is no fear with a painted steel frame made by Windcolor that its components will buckle or warp. Continual top quality performance is guaranteed by the proverbial strength of rolled steel and its low coefficient of expansion combined with the precision of the machining systems, the efficiency of the frame assembly accessories and fittings.



## AIR AND WATERTIGHT PROPERTIES

Full, functional use may be made of sealing gaskets with the Windcolor system, while compensating joints may be created to give exceptional performance even when there are strong winds. All frames made with the Windcolor system have passed regulation quality compliance tests with flying colours.



## FUNCTIONALITY OF FITTINGS

With the complete, diversified range of fittings exclusive to the Windcolor system, windows and doors may be made that are not just functional but also easily integrable from an aesthetic point of view. The well thought-out design and the severity of controls ensure constant full functionality of all the movement and closing mechanisms of the finished frame, even under conditions of severe stress.



## EASY INSTALLATION

Windows and doors made with the Windcolor system come fully finished, including glazing and ready for installation. A special sub-frame makes installation possible even where apertures in the wall have not been prepared.



## INTEGRAL PROTECTION

In the Windcolor system the frame sections are protected by a plastic film during all machining stages as well as during installation and the various finishing stages on site. The end user is therefore guaranteed a frame without scaling, splitting, chipping or changes in colour and also without splashes of plaster.



## HIGH HEAT AND SOUND INSULATION

The Windcolor system standards far exceed those of normal quality regulations. All the hollow parts communicating with the outside are insulated and double glazing can be used in all Windcolor frames. The efficiency of the locking mechanism plus sealing gaskets complete the heat and sound insulating effect, in compliance with South African National building regulations.



## SPEED

Manufacturing and installation times of frames made with the Windcolor system are extremely short, all to the advantage of delivery times. Windcolor means easiness of machining and assembly, thanks to the advanced Windcolor technology, which provides painted sections requiring no further protective or finishing treatment.



## MAINTENANCE FREE AND FIRE-RESISTANT

The finishes and the doors made with the Windcolor system have a far longer average life than those of competitors and alternative products and require very little routine maintenance, even in the presence of particularly aggressive atmospheric agents, and is resistant to Africa's harsh UV rays. The quality of the materials used and the technologically advanced painting procedures ensure lightfastness and absence of deformation or combustion, even in the event of accidental emanation of intense heat.



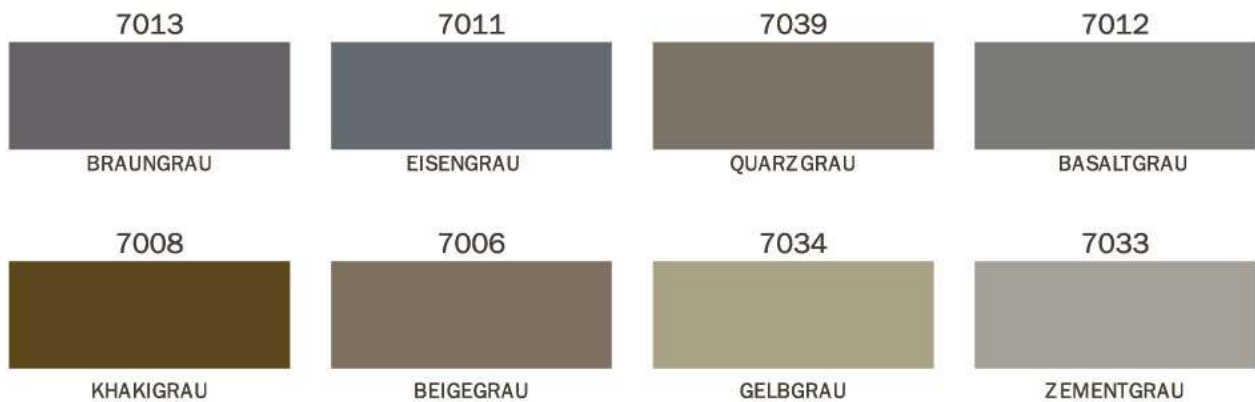
# COLOUR MEETS DESIGN

WINDCOLOR IS AVAILABLE IN THE WHOLE RAL K7 CLASSIC RANGE.  
GLOSS OR MATT FINISH.

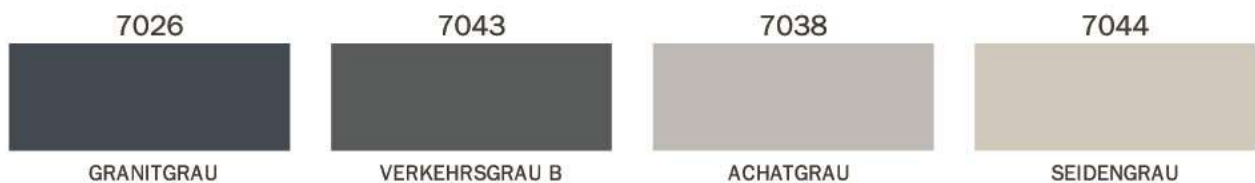
## PRIMARIES



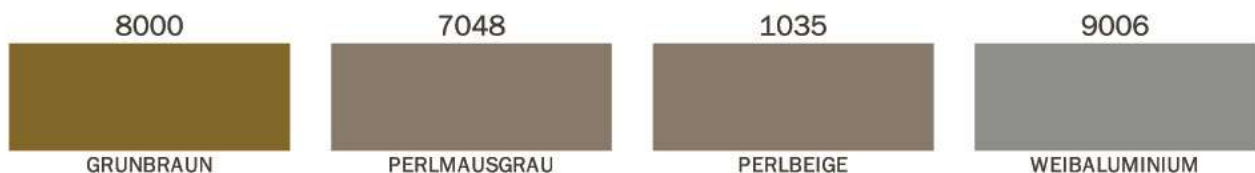
## WARM PALETTE



## COOL PALETTE



## METALLICS





**DURO**  
— **PRESSINGS** —

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