

## Guarantee and prescriptions

Our 2 years guarantee covers panels only in their original color and installed with appropriate FlexiForce hardware components, in accordance with intended use. When applied, it is limited to the value of the panels as invoiced by FlexiForce.

### **Rust:**

Panels offered by FlexiForce are made of cold rolled steel sheets, hot dip galvanized and coated with Polyester paint, Polyurethane paint, PVC paint (Plastisol) or PVC film (wood and inox imitations).

Those products are delivered to us according to the norms EN 10169 or EN 10327.

This means that our panels are guaranteed for 3 years against rust, except special geographic (seaside), atmospheric (salty, chemical,...) or other (shocks, contacts with solvents, ...) circumstances.

### **Foam adherence:**

We guarantee our panels against delamination (separation of the foam from the steel) for period of 2 years, as long as they are not exposed to temperatures above 50°C.

### **Protection film:**

The protection film covering both faces of the panels has to be removed immediately after the hanging of the door, and this latest 6 months after the panel production date. After this time, the paint or the PVC film (wood and inox imitations) can be damaged during the removal of the protection film. Furthermore, PVC and Deep Matt colors have to be stocked inside a dry place, otherwise condensation and glue deposit can occur under the protection film.

### **Shape:**

For doors above 4500mm wide, in some cases above 3500mm, the use of wind struts is recommended, otherwise panels exposed to strong winds can suffer damages in their shape.

Deformation can also happen when panels are exposed to the sun (especially for doors oriented south and particularly for dark colors). The client is supposed to use appropriate hardware to the door configuration to avoid any damage due to such a deformation.

### **Color:**

Climate can impact the color with time. We guarantee the original color for 1 year and recommend to use the panels according to the FIFO method. Warranty covers only panels in original color as delivered to the customer.

The color differences of the panels are an inherent feature of the goods. The manufacturers do not guarantee color repeatability in different production batches. It is the buyer's responsibility to check immediately after delivery, that the goods are in accordance with the order and free from defects in aesthetics and color differences. The buyer is obliged to inform Flexi Force Poland about such fact immediately.

Flexi Force Poland recommends customers to check the goods for color differences before processing (cutting, fitting, mounting hinges, mounting panels on the gate). After processing the panels and installing the door, complaints regarding aesthetics and colors will not be considered.

### **Surface:**

From infinitesimal point of view may a panel always show surface defects (micro-scratches, waves, etc...). It is common practice to consider such defects as acceptable if not visible when looking at the panel from a minimal distance of 1.5m with an angle between 90° (perpendicular to the panel) and 30°.

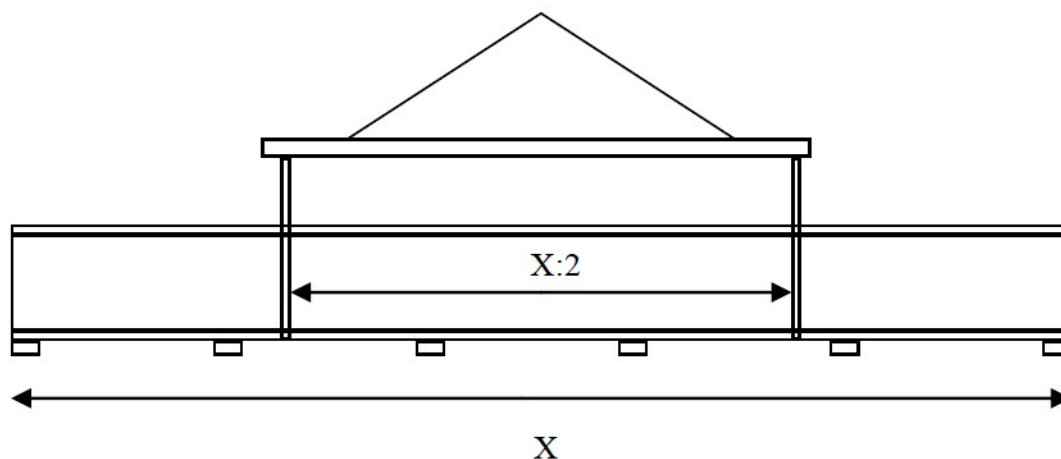
### **Cleaning:**

Panels can be cleaned with neutral soap and water by the means of a soft cloth (not abrasive), before appropriate rinsing and drying.

### **Handling:**

Packs can be handled with a forklift (for lengths < 6m) or with flat slings hanging to a lifting beam. Please do not use chains.

For safety reasons and to avoid any damages to the panels, the 2 lifting points must be at equal distance from the center of the pack, and in distance from each other of half the pack length.

**Storage:**

Packs can be stacked up on each other (maximum 3 packs).

If stored outside, packs should be put on a slight slope to drain off the rainwater.

Storing area must be safe from circulation.

Do not put anything on packs and prevent people from walking on it.

**Thermal bow of residential panels:**

40mm panel thickness			Span (mm)				
			3000	3500	4000	4500	5000
Temperature difference(°C) (T2-T1)	-50	-17	-23	-30	-38	-47	
	-40	-14	-18	-24	-30	-38	
	-30	-10	-14	-18	-23	-28	
	30	10	14	18	23	28	
"-" indicates colder outside	40	14	18	24	30	38	
	50	17	23	30	38	47	
	60	20	28	36	46	56	
	80	27	37	48	61	75	

The above table do not allow for any tolerance or clearance.

The table assume that no panel stiffeners are used. All measurements are in millimeters.

Panel material is steel - coefficient of linear thermal expansion is 0,000012/°C

Thermal Bow should be taken into account when allowing for header clearances, especially dark colors and wide spans.

Further technical information is available from FlexiForce.

