

## Précontraint® Frontlit 456

### τ Description

Précontraint Frontlit 456 is a durable, flexible sign face material for frontlit signs, so called billboards. It is suitable for large signs, but as well for only on one side decorated banners.

Précontraint Frontlit 456 consists of a polyester base fabric embedded between two layers of white vinyl. The smooth topcoat provides very good printability and brilliant colours. It has a glossy as well as a mat surface for different application needs!

The flexible substrate is light, tear resistant, weldable and resistant to U.V. and changes in temperature. Thanks to the Précontraint coating technology, this article features an outstanding surface area stability.

### τ Physical Characteristics

Property	Test Method	Value
Base fabric		Polyester high tenacity, 1100 dtex
Weight	DIN 53854	approx. 500 g/m <sup>2</sup>
Thickness	DIN 53855	ca. 0,5 mm
Tensile strength	DIN 53857	> 2000 N/5 cm Warp > 2000 N/5 cm Weft
Tearing resistance	DIN 53363 trapezoid	> 250 N Warp > 200 N Weft
Elongation	DIN 53857	approx. 16 % Warp approx. 20 % Weft
Temperature stability		-20 °C to +70 °C
Dimensional stability		< 0,5%

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### τ Dimension

**25-metre** rolls of Précontraint Frontlit 456 wound on notched 3-inch (76-mm) cardboard cores are available in the following standard widths:

135 cm, wound with the glossy side to the inside. For protection against soiling, moisture and damage, each roll is encased in plastic film and packaged in a strong cardboard box. These rolls are sold exclusively by specialised retailers.

160 cm, wound with the glossy side to the outside. These rolls are encased in plastic film.

**50-metre** rolls of Précontraint Frontlit 456 wound on 3-inch (76-mm) cardboard cores are available in the following standard widths:

110 cm + 250 cm, wound with the glossy side to the outside. For protection against soiling, moisture and damage, each roll is encased in plastic film. These rolls are sold exclusively by specialised retailers.

**250-metre** rolls of Précontraint Frontlit 456 wound on 6-inch (152.4-mm) cardboard cores are available in the following standard widths:

160 / 270 cm, wound with the printable side to the outside. For protection against soiling, moisture and damage, each roll is encased in plastic film and packaged suspended in a strong wooden/cardboard box.

Other roll dimensions and packaging arrangements are available on request. Minimum order quantities apply to certain formats and packaging.

## Précontraint® Frontlit 456

### τ Application

The surface of Précontraint Frontlit 456 was especially developed for digital printing with Inkjet printers using solvent-based inks, but can also be screen printed.

It is recommended to do a test previously on a small area, because every machine, ink or pressure sensitive film can have other properties.

Before applying the decoration, the surface of the substrate must be dry and free of grease, oil, silicones and dirt to achieve optimal results.

### τ Durability

Précontraint Frontlit 456 is a tried and tested product. Depending on local conditions and climatic zone, the material has a lifetime of up to three years. Excepted from this are applied decorations. A gradual fading is common and depending on the quality of the ink.

### τ Fabrication

To form large billboards, the panels should be overlapped 2-3 cm and seamed with a high-frequency equipment. The overlap-seaming can also be done with a hot-air welding machine.

### τ Storage

Précontraint Frontlit 456 should be stored in a cool, dry environment, free from direct sunlight. It is recommended to cover the material with polythene sheets for protection against dust and humidity. Storage period should not exceed 1-2 years!

### τ Quality Assurance

Stamoid is an ISO 9001 / 14001 certified company and all Ferrari & Stamoid materials are carefully controlled for quality.

Specifications are subject to change without notice