



## Berger Product Information

### How to print double sided flags & banners

#### Overview of solutions for double-sided flag/banner printing with different images on both sides:

**Application:**

PVC-free flags, hangers, window blinds, beach flags  
with different images on both sides of the flag

**Problem:**

shine through of different images, fitting register marks

**General solutions:**

- A. printing on one blackout on both side
- B. printing on two blackouts
- C. printing on "normal" fabrics, using a blackout inlay

**Inks/technologies:**

- 1. UV-curable inks
- 2. Latex inks
- 3. Dye Sublimation
- 4. Solvent inks

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[www.bergertextil.com](http://www.bergertextil.com)

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## How to print double sided flags & banners

### 1. UV-curable inks

#### A. printing on a blackout on both sides

*blackout direct FR +s 3898-6565*

same surface and image both sides

#### B. printing on two blackouts

*blackout directo FR +w (3893-2665)*

*blackout night FR (3894-65)*

*4233-6 Micro backlight FR +w (not blackout but opaque enough)*

one side textile, other side foam, different surfaces are giving different image qualities.

#### **Recommendation:**

Printing on two blackouts is easier with the register marks:

#### C. printing on "normal" fabrics, using a blackout inlay

Print on standard white fabrics like:

*3745-3 eco flag 117*

*4418-77 universal lightex FR + ws*

*4280-26eco eco display 210 FR +w*

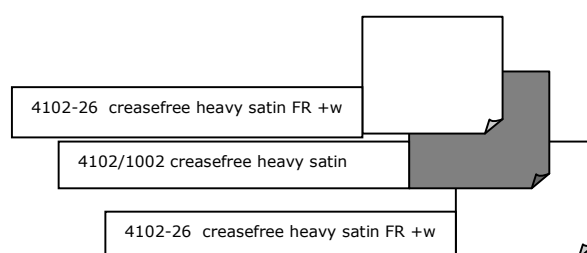
*4102-26 creasefree heavy satin FR +w*

To get the opacity use a blackout (best is silvergrey) in the middle to avoid the "shine through effect".

#### **Recommendation:**

*4102/1002 creasefree heavy satin in silvergrey*

Take for all 3 media the same fabric for better / straighter hanging



#### **Attention:**

There are different possibilities to sew the fabrics together to keep them hang straight due to different elasticity of the fabrics.

**Option 1:** sewing of fabrics

**Option 2:** heat cutting and "welding" them with this process on the edges

Tests are absolutely necessary!

**Berger offers a sewing training in Krefeld for clients free of charge!**

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## How to print double sided flags & banners

### 2. Latex inks

#### A. printing on a blackout on both sides

*blackout direct FR +s 3898-6565*  
same surface and image both sides

#### B. printing on two blackouts

*blackout directo FR +w (3893-2665)*  
*blackout night FR (3894-65)*  
*blackout twill FR +w (4230-26)*

one side textile, other side foam, different surfaces are giving different image qualities

#### **Recommendation:**

Printing on two blackouts is easier with the register marks:

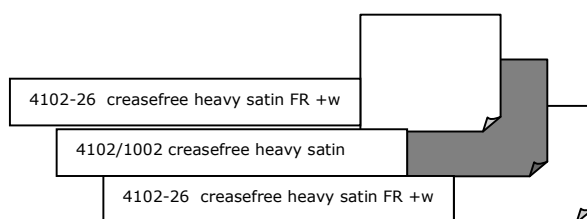
#### C. printing on "normal" fabrics, using a blackout inlay

Print on standard white fabrics like:  
*3745-3 eco flag 117*  
*4418-77 universal lightex FR + ws*  
*4280-26eco eco display 210 FR +w*  
*4102-26 creasefree heavy satin FR +w*

To get the opacity use a blackout (best is silvergrey) in the middle to avoid the "shine through effect".

#### **Recommendation:**

*4102/1002 creasefree heavy satin in silvergrey*  
Take for all 3 media the same fabric for better / straighter hanging



#### **Attention:**

There are different possibilities to sew the fabrics together to keep them hang straight due to different elasticity of the fabrics.

**Option 1:** sewing of fabrics

**Option 2:** heat cutting and "welding" them with this process on the edges

Tests are absolutely necessary!

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## How to print double sided flags & banners

### 3. Dye Sublimation

#### **A. printing on a blackout on both sides**

*blackout twill FR +w (4230-26)*

same surface and image both sides

#### **B. printing on two blackouts**

*blackout directo FR +w (3893-2665)*

*blackout night FR (3894-65)*

*blackout twill FR +w (4230-26)*

one side textile, other side foam, only the textile side is printable in dye sublimation.

#### **Recommendation:**

Printing on two blackouts is easier with the register marks:

#### **C. printing on "normal" fabrics, using a blackout inlay**

Print on standard white fabrics like:

*3745-3 eco flag 117*

*4418-77 universal lightex FR + ws*

*4280-26eco eco display 210 FR +w*

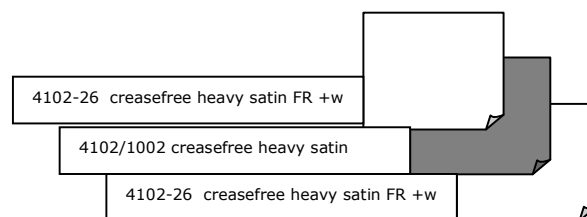
*4102-26 creasefree heavy satin FR +w*

To get the opacity use a blackout (best is silvergrey) in the middle to avoid the "shine through effect".

#### **Recommendation:**

*4102/1002 creasefree heavy satin in silvergrey*

Take for all 3 media the same fabric for better / straighter hanging



#### **Attention:**

There are different possibilities to sew the fabrics together to keep them hang straight due to different elasticity of the fabrics.

**Option 1:** sewing of fabrics

**Option 2:** heat cutting and "welding" them with this process on the edges

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## How to print double sided flags & banners

### 4. Solvent inks

Here we cannot offer a good solution today.

Your Berger Team

June 2010

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