

fig. 3

Pixels

A single pixel consists of two single pixel-caps. The pixel-cap provides two click mechanisms, with a single mounting and do not disconnect (fig. 3). The pixel-cap is constructive passed by the engineers of Metron B.V. and tested by Demakersvan B.V.

Pixels are available in two types of material.

1. PS-ASA colored through and through:

Specific gravity:

Tensile strength 3,2 mm:

IZOD Impact strength

Weather ability:

Flammability:

Not cleanable with chemicals

1,19 kg/l, testing method ASTM D792

600 kg/cm², testing method ASTM D638

55 kg cm/cm, testing method ASTM D256 (23C)

F1, testing method UL746C

VO, testing method UL94 VO

2. ABS colored by coating:

Specific gravity:

Tensile strength 3,2 mm:

IZOD Impact strength 3,2 mm:

Flammability:

Coated with UV blocker

Not cleanable with chemicals

1,19 kg/l, testing method ASTM D792

450 kg/cm², testing method ASTM D638

21 kg cm/cm, testing method ASTM D256 (23C)

VO, testing method UL94 VO

rating depending on the coating

Partners development:



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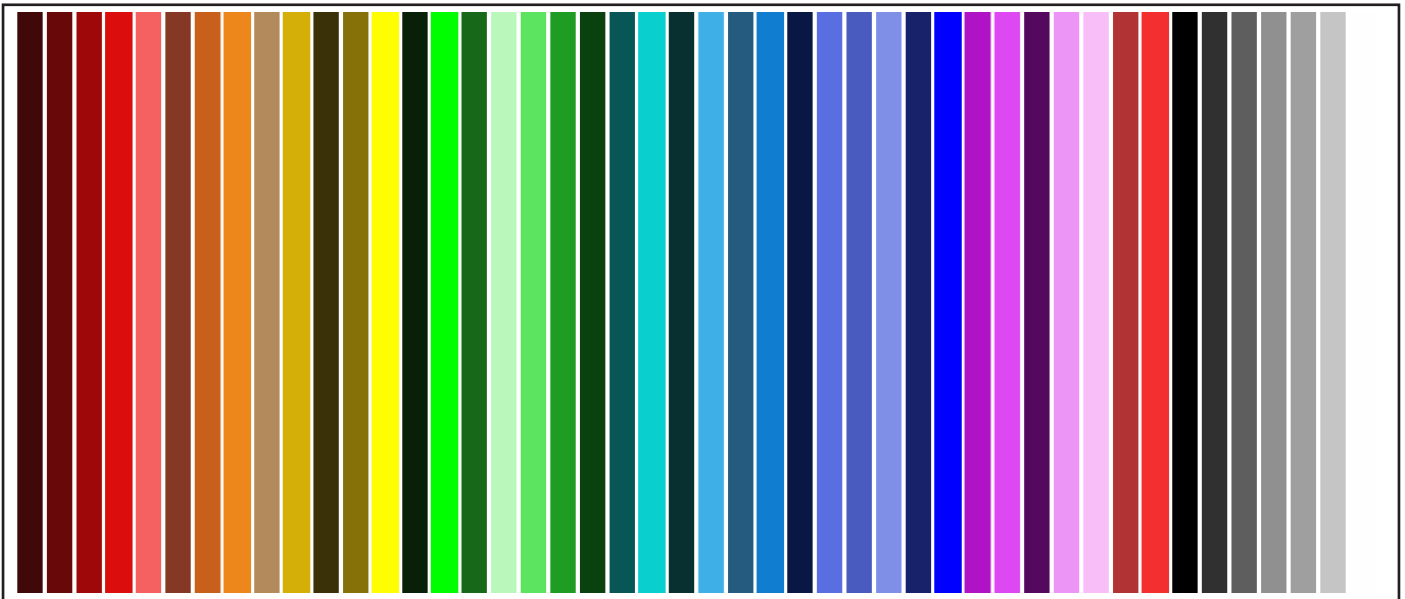
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Color

fig. 4

The standard color range (fig. 4) of Dedots is built up from 45 colors. A basic project consists of 20 colors within this color range. For most of the images (fig. 5&6) 20 colors out of the standard color range is sufficient to get a marvelous result. If needed more colors out of the standard color range, or even custom colors, can be added. Special coatings are available in gloss, metallic en chrome (only ABS)



fig. 5



fig. 6



fig. 7

Density

Besides color and the graphical quality of the image, transparency is one of the key features of the material Dedots. Transparency can be added by different pattern densities (fig. 10), a gradient (fig. 9) or by simply omitting the pixels in certain spots (fig. 7&8). In addition to the fixed base, m2-prices are highly depending on the amount of pixels per m2. Adding transparency in the graphics or images, can have therefore a positive effect on the overall m2-price. On the following pages (fig. 8a-8g) different options of densities are shown. Starting with a relatively abstract image with much transparency and few colors to a full color image with a maximum filling of pixels and relatively little transparency.

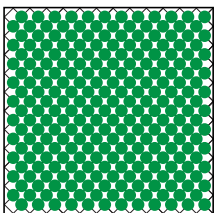
The dimension of each option displayed is 8000 by 5000 mm, mesh size of the chain-link fence is 45 mm. For each option following the variables are shown.

Amount of colors

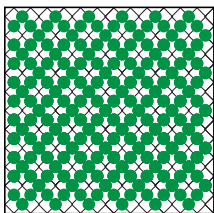
Densities of the different patterns

Fill percentage of the available intersections of the chain-link fence

D40 - P100
100 % Fill | 561 Px / M²



D40 - P75
75 % Fill | 420 Px / M²



D40 - P50
50 % Fill | 281 Px / M²

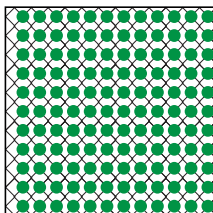


fig. 10

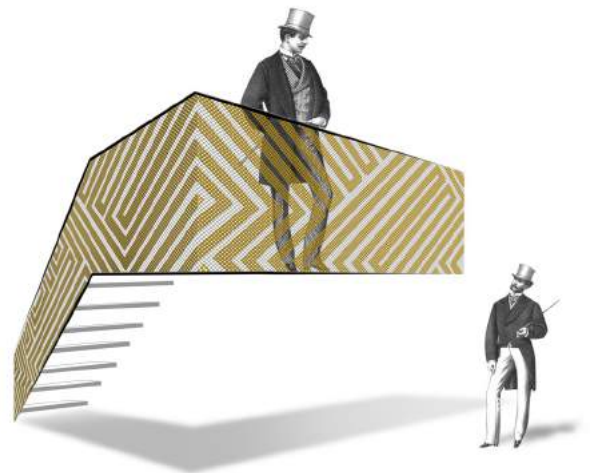


fig. 8

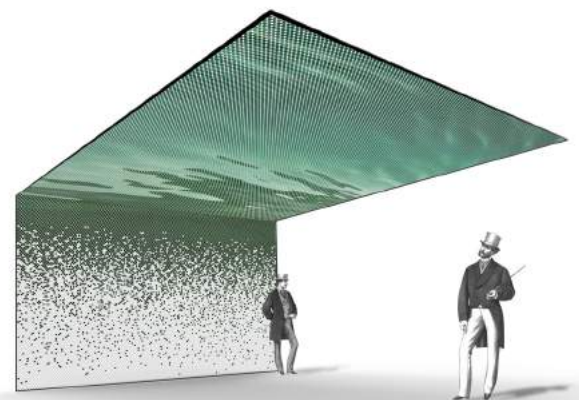


fig. 9

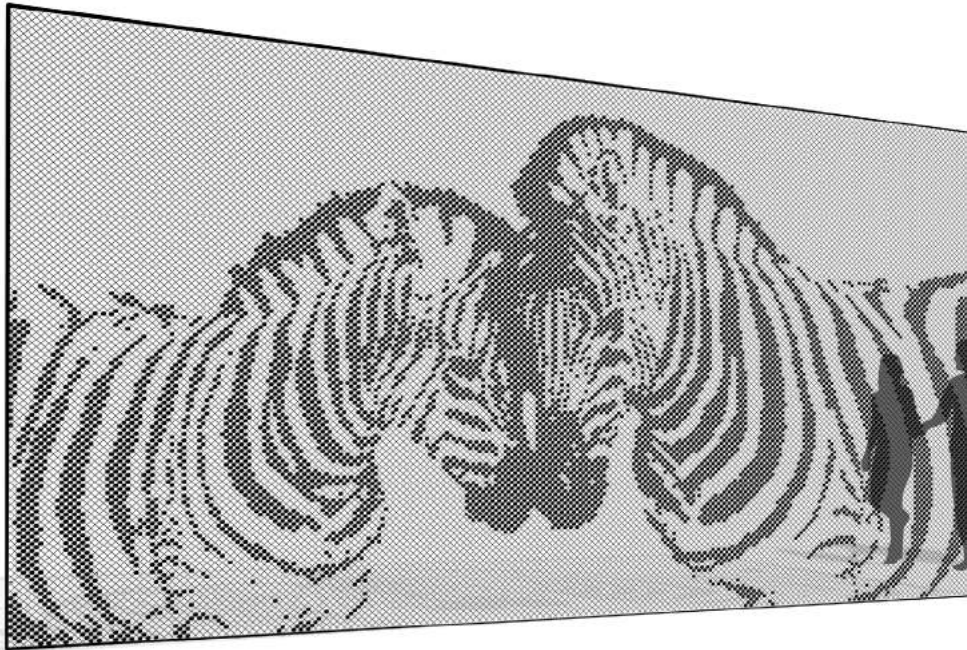
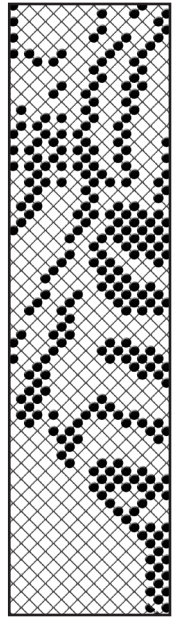


fig. 11a



fill: 24%
 pattern: P100
 colors: 1

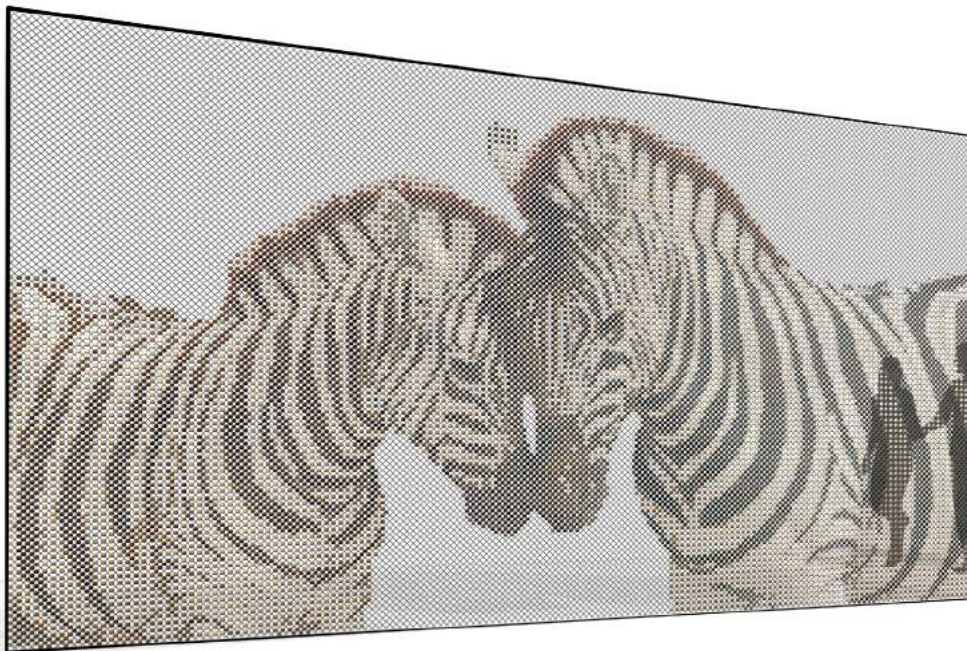
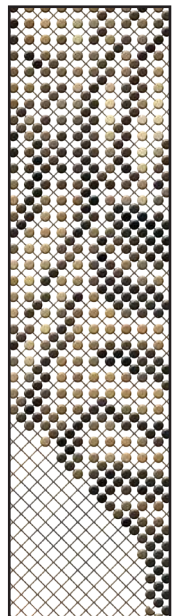
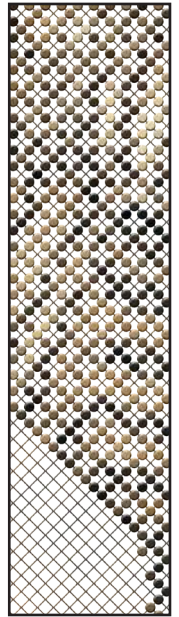
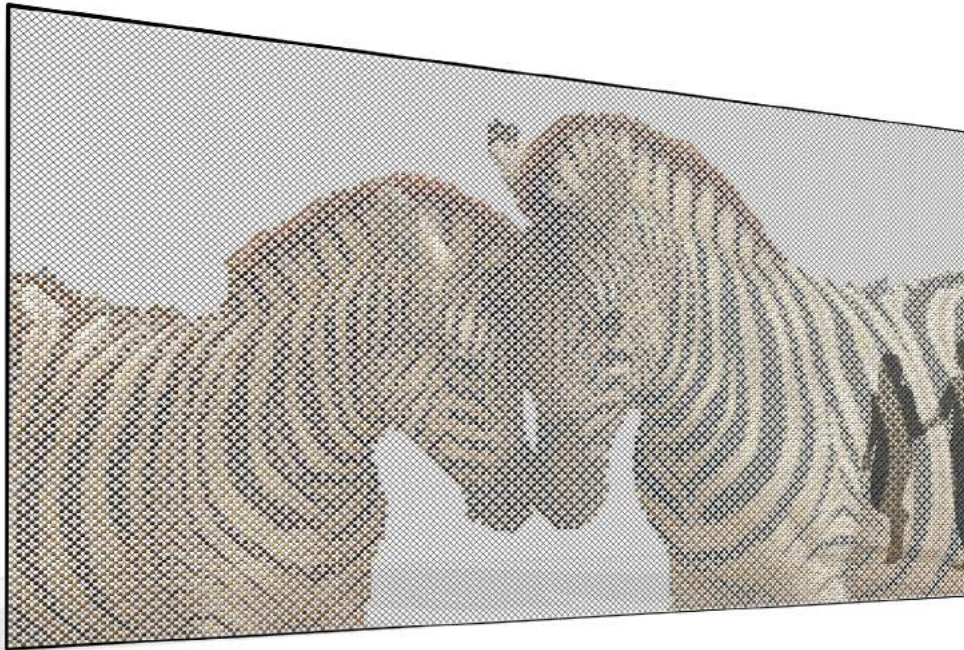


fig. 11b



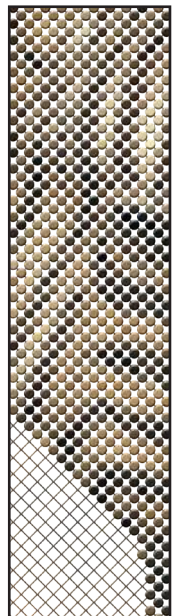
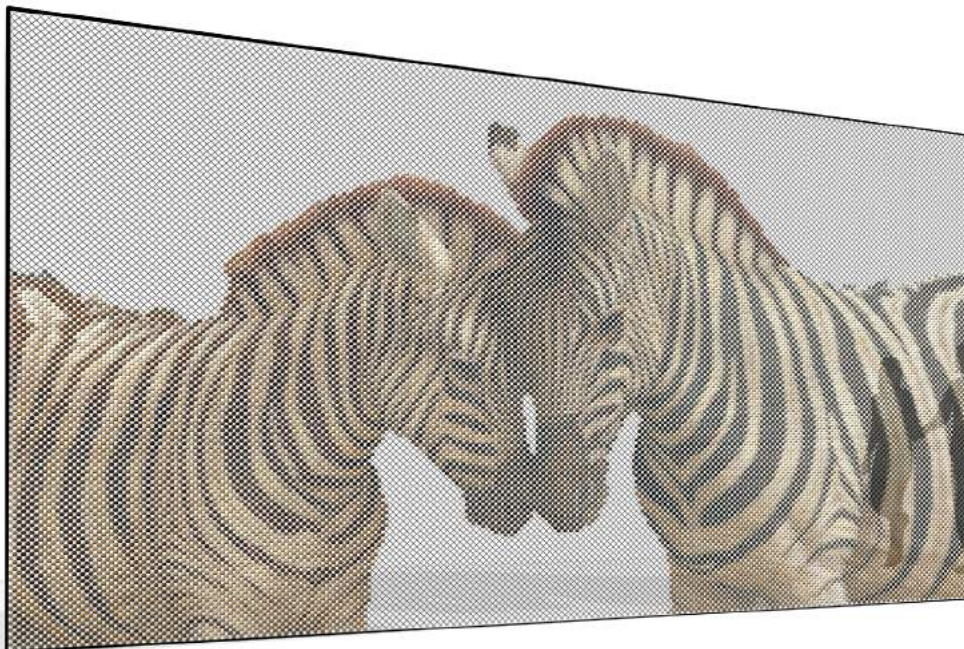
fill: 42%
 pattern: P100 & P50
 colors: 16





fill: 45%
pattern: P75
colors: 16

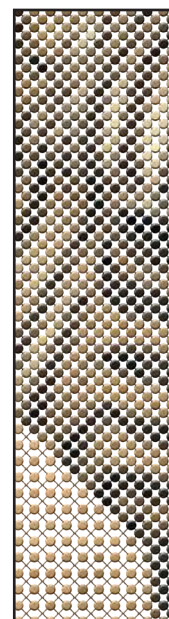
fig. 11c



fill: 60%
pattern: P100
colors: 16

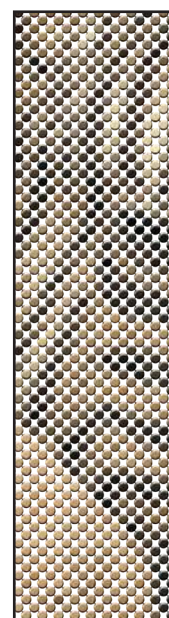
fig. 11d





fill: 75%
pattern: P100 & P50
colors: 20

fig. 11e



fill: 100%
pattern: P100
colors: 20

fig. 11f

