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Usage guidelines

Please refer to the usage guidelines at http://sure.sunderland.ac.uk/policies.html or alternatively contact sure@sunderland.ac.uk.
The 'POP-UP' is street-furniture that can be pumped out of the pavement by the inhabitants. The 'POP-UP' is a result of a collaboration of Carmela Bogman and Rogier Martens.

In the quarter Lombok in the city of Utrecht, The Netherlands the first Pop-Up was placed. The Pop-Up, furniture for the public space, is a design of Carmela Bogman and Rogier Martens.

The Pop-Up is a furniture that can be pumped out of the pavement by the inhabitants. After use it can be pumped back and it will disappear into the pavement. This means that the inhabitants have the freedom to decide for themselves, when they want to use the Pop-Up and in which way.

The Pop-Up is made out of three retractable bollards. On these bollards aluminum sheets are attached that can be manually pumped out of the floor. Several keys are spread among the neighborhood to its different uses of the furniture. The keys give access to the pumping system. Because of the hydraulic system the bollards can be fixed at any height, with a maximum height of seventy-five centimeters. The user calculates the space, every user in its own opinion.

By using several sheets that can be fixed at any height, the choice is up to you whether you want to create a bench, a stage or a hilly area. The possibilities are endless. The Pop-Up blurs the boundaries between public and private. After using the Pop-Up it is pumped back into the pavement creating a peaceful street scene without any obstacles. But if you feel like using the Pop-Up, all the ingredients are right there on the street.

Rogier Martens is a spatial designer with a penchant for public spaces. The emphasis of his work is the interaction between people and space, particularly the influence of the user on the product. Martens pushes appliances, with an unmistakable identity, and he designs them actively in search of an interaction with the user. His designs are always supported by research, not only the needs of the end user will be defined in this research process but also the product and consequence set the limits into reality. This open approach leads to special designs with great potential to use it. Martens recently, commissioned by various municipalities, realized various meeting places seating people to use them.

**Designer**
Rogier Martens & Carmela Bogman

**Photographer**
Rogier Martens

**Material**
Coated stainless steel / hydraulic system

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**Solar Cell Seat**

Public seating illuminated by LEDs which are powered by photovoltaic cells (PV cells) incorporated into the seats themselves. Enough power can be stored to light the seats for up to 12 hours per evening in summer and 3 hours per evening in winter.

The simplicity of design, the independent unit with adjustable legs, means that it can be ideal anywhere on flat surface making it a versatile and user friendly solution to the public seating needs of town planners and urban designers in the 21st century.

*Power supplied by 31 solar cells producing 18 volts stored in batteries situated in seat unit. It is illuminated by LED light strips installed beneath a textured laminated glass seat top.*

**Designer**
Cate Watkinson

**Location**
Skinner's Bank, Sunderland, UK

**Materials**
Laminated glass and stainless steel

**Size**
1.2m high x 2m long

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Cate Watkinson of Watkinson Glass Associates has over 20 years experience as an architectural glass specialist designing and delivering architectural glass commissions for a wide variety of applications. During this period she has been instrumental in developing the potential of glass in the public realm, the projects range from decorative glass panels for public and private buildings to street furniture and sculptural public art pieces.