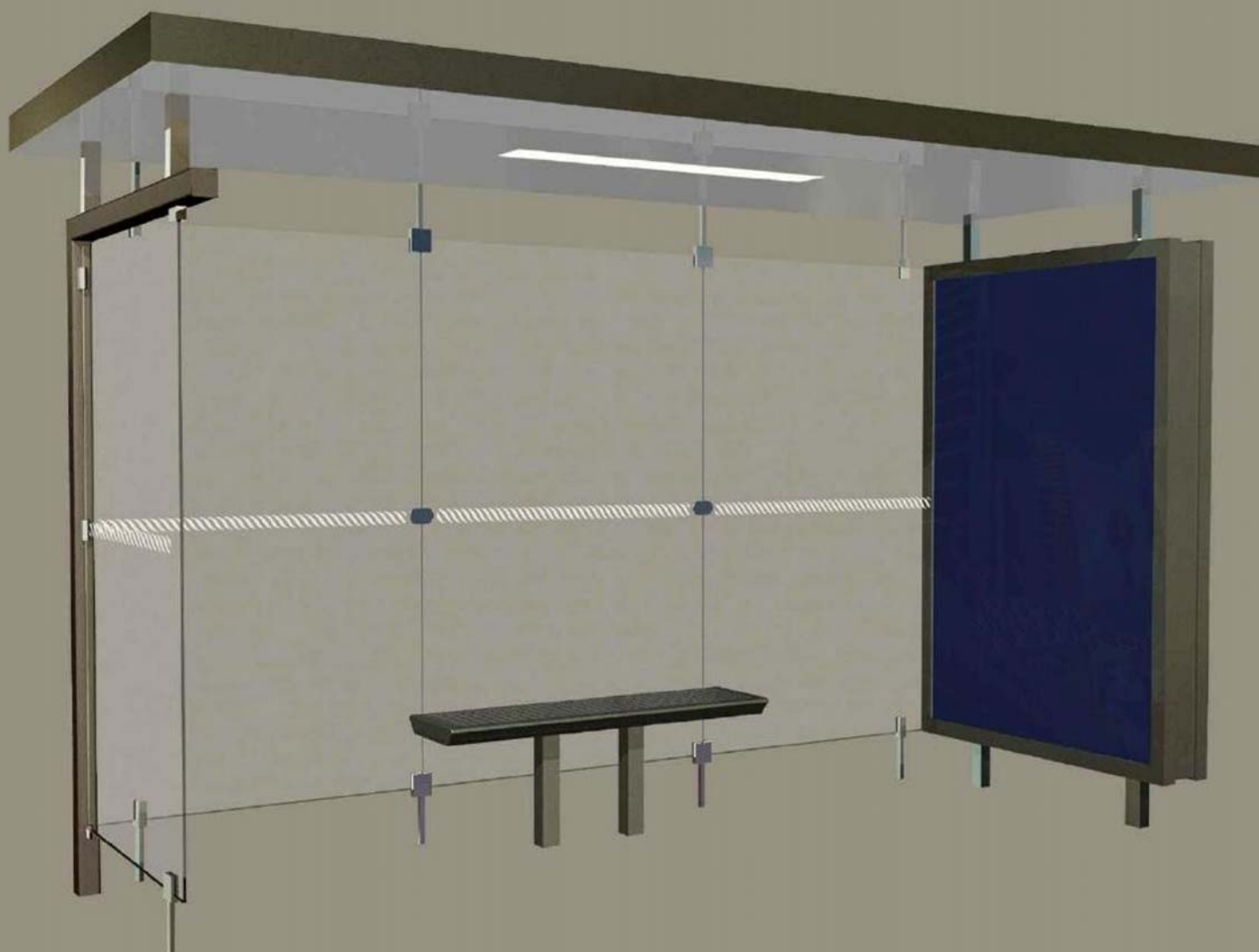
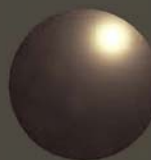




# Trafic *Design Passenger shelter*

## Colours



Chain metal grey  
JCD 7002



Light grey  
JCD 7006



Royal blue  
RAL 5017

*Designed and manufactured by  
JCDecaux*

*15 people sheltered*

*3 seated places*

*6,4 m<sup>2</sup> covered area*

## Overview



Litter bin



Technical description

Structure

**FRAME**  
Comprised of a roof supported one end by the advertising panel, at the other, by a return glass cantilever post. Frame is calculated to resist winds of up to 160km/h. Electrical connection is to the adcase.

**GLASS**  
The three back glasses and the return glass are fixed using glass cleats. 10mm thick safety glass used throughout (breaks into small harmless square pieces in the event of breakage). There is a 100mm gap between the ground and the bottom of the shelter to avoid accumulation of wind blown litter in the shelter. Provides excellent visibility and optimum protection against the elements.

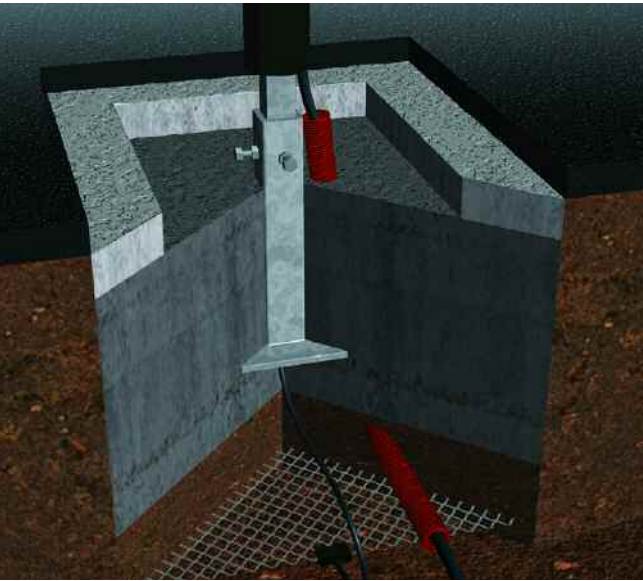
**ROOF**  
The roof is made of a glass fibre reinforced polyester with a central recess for the light unit.  
The roof can withstand a load of 100 kg/m².  
The design of the roof allows rainwater to be drained to the ground via the structure

Advertising panel

Of aluminium profile construction, with internal galvanised steel posts.  
Fitted with two top hung doors.  
Index of protection against ingress of dust and water IP 34  
Housed the electrical panel  
Lighting by 4 fluorescent tubes  
Diffuser panel provides excellent backlight uniformity  
Posters suspended by a fold in a hanging rail, or by clips  
Contributes to the internal shelter lighting

Foundations

All posts secured in galvanised steel sockets cast in concrete slabs  
The system allows for adjustment of height of posts. Clamping screws prevent any movement.  
Bench secured to the foundation with baseplates attached to cast anchor bolts.  
The concrete used is to BNC 25 (25Mpa)  
The adcase slab has a duct for the electrical supply and an earth grid in the soil below.  
The foundations can accommodate local obstructions, are calculated for extreme wind conditions and can cater for slopes up to 4%



Bench

Comprised of a 3 seat top fixed to 2 legs bolted to the foundation  
The stainless steel seat is perforated to avoid accumulation of water  
Legs E24 steel hot dip galvanised and painted

Materials

| MATERIAL                   | ANTI-CORROSION PROTECTION | FINISH                       | MAIN PARTS                  |
|----------------------------|---------------------------|------------------------------|-----------------------------|
| steel                      | Hot dip galvanising       | polyester powdercoat<br>80µm | shell<br>foundation slab    |
| stainless steel            | passivation               |                              | fixings                     |
| stainless steel            | electropolishing          | beadblasting                 | bench seat                  |
| extruded aluminium         | chromate conversion       | polyester powdercoat<br>80µm | display and timetable cases |
| 8mm toughened glass        |                           | silk-sceen printed enamel    | display case glazing        |
| 10mm toughened glass       |                           | silk-sceen printed enamel    | shelter glazing             |
| glass reinforced polyester |                           | gelcoat                      | roof                        |
| synthetic elastomer        |                           | pigmented                    | seals                       |
| B25 concrete               |                           |                              | foundations                 |

Lighting

Provided by a central, flush-mounted light unit in the underside of the roof.  
Blends well with the design and uses tamper proof screws to combat vandalism  
Illuminates the timetable case

The environment

Optimisation of number of fluorescent tubes for best posting quality at minimum consumption  
Powder paint used to eliminate organic solvent emmissions  
Electronic ballasts used to achieve 15% energy saving  
Fluorescent tubes 100% recycled at end of life

Electrics

Connected to public lighting network  
Factory tested for electrical insulation and dielectric strength  
Supply 220/240V- 50 Hz  
Protected by residual current circuit protection device 25A-30mA  
6A mains isolator  
**POWER RATING :**  
shelter : 36 VA  
display case : 216 VA  
**CONSUMPTION :**  
shelter : 0.40 kWh/day  
display case : 2.5 kWh/day  
based on 4200 hours per annum lighting

# Standards

Designed and manufactured to ISO 9001 (version 2000)

| MECHANICAL                                        |
|---------------------------------------------------|
| - mechanical construction rules                   |
| - aluminium construction rules DTU 13.12          |
| rules for calculation of shallow foundations CM66 |
| eurocode 2 and 3                                  |
| BAEL 91 for reinforced concrete                   |
| DTU 39 for glazing                                |
| NFE 25/27 for fixings                             |

| ELECTRICS  |
|------------|
| NFC 15-100 |
| NFC 17-200 |
| CE         |

# Safety

Unobstructed vision

Absence of visible fixings prevents unauthorised removal of parts

Fast installation through factory pre-assembly

Glass changed from outside the shelter, minimising inconvenience to users

Safety marking during cleaning and maintenance operations

# Resistance to vandalism

Shock protection index : IK 07

Display case doors locked with special security key

No visible fixings

No visible wiring

Toughened safety glass glazing

Materials unaffected by exposure to weather used throughout



*A safe enclosure meeting all relevant standards*

*Strong and durable materials used throughout*

*Roof withstands the weight of 16 persons*

*A shelter designed to afford excellent protection for users against both bad weather and strong sunlight*

*Designed for optimum resistance against vandalism*

