Trafic Design Passenger shelter

JCDecaux

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Overview

Colours

Chain metal grey
JCD 7002

Light grey
JCD 7006

Royal blue
RAL 5017



Litter bin

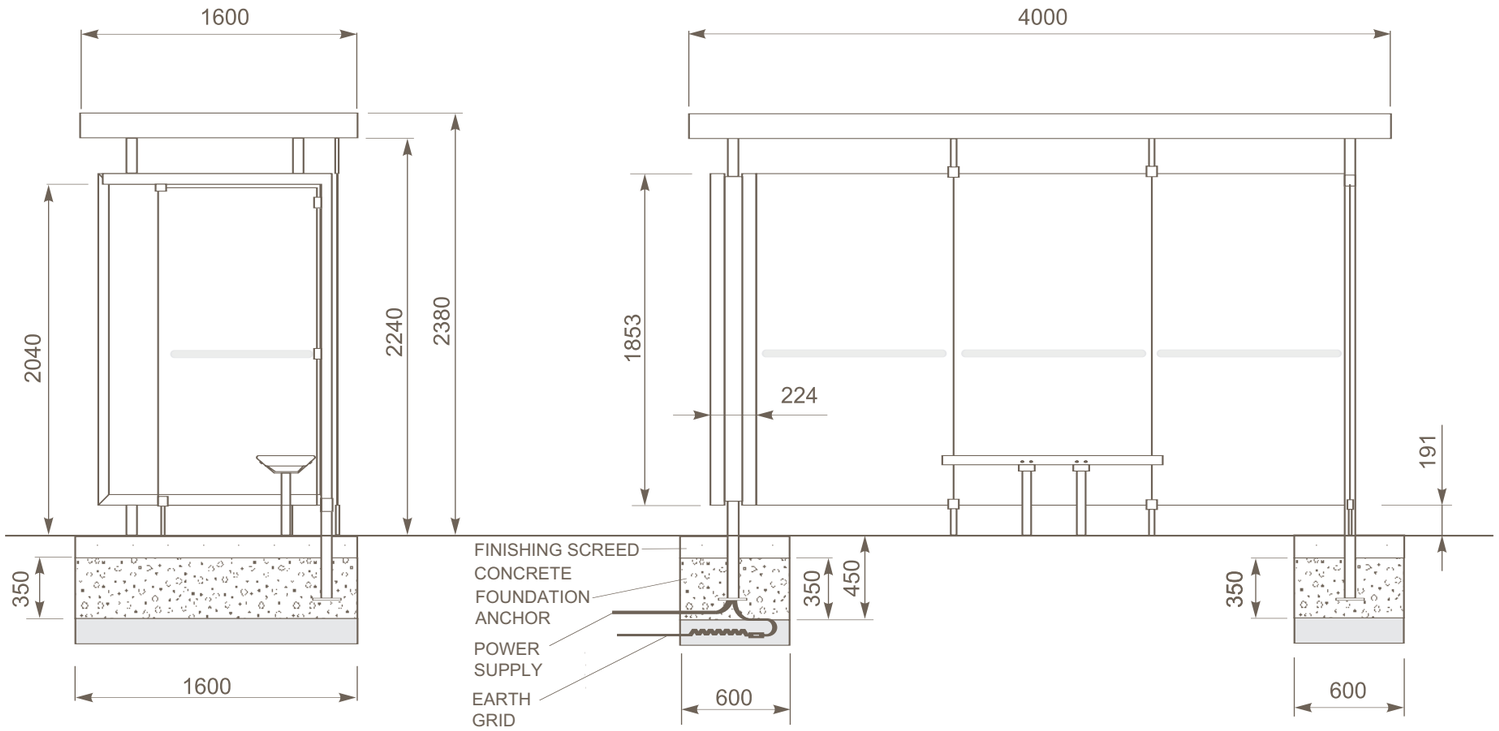
Designed and manufactured by JCDecaux

15 people sheltered

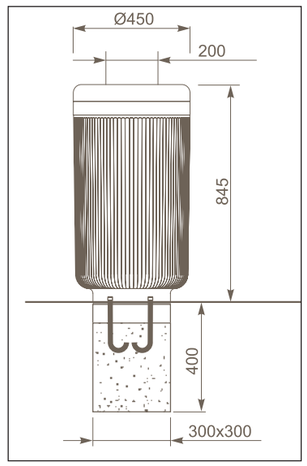
3 seated places

6,4 m² covered area

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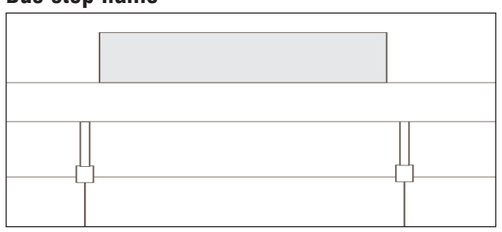


Option, if contracted :
Litter bin



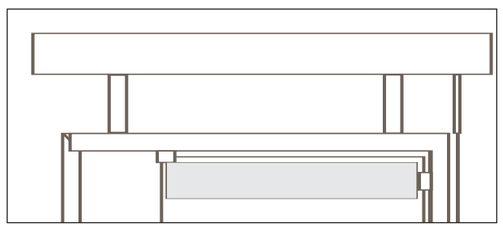
Capacity 60 litres
Body made of rotomoulded pigmented polyethylene
Lid pressed aluminium
Rotomoulded high density polyethylene plastic basket

Option, if contracted :
Bus stop name



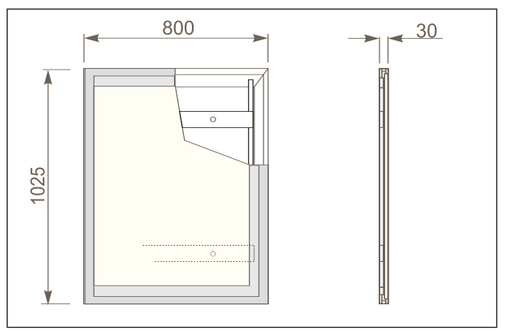
Painted aluminium plate, fixed to the roof
Self-adhesive vinyl lettering
Dimensions adapted to customer requirements

Option, if contracted :
Route numbers and directions



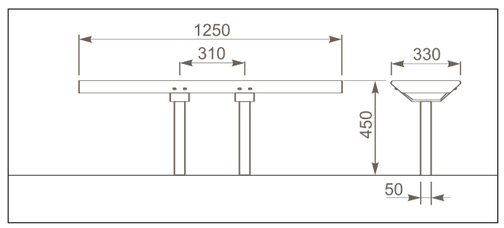
Self-adhesive vinyl lettering on return glass

Information case



Fixed on one of the back glasses
Aluminium profile construction
Polycarbonate sheet glazing (3 mm thick)
Anti-mist system
Opened using special key
Fixings to standard NF E25/27

Bench



Steel legs
Stainless sheet perforated with 8mm holes.

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/m^2.

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.

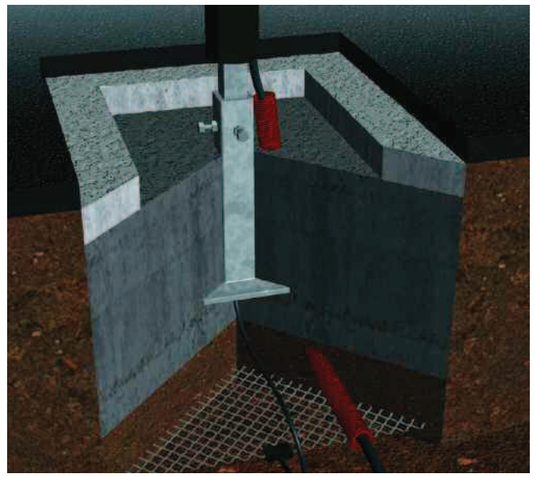
Clamping screws prevent any movement.

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 80μm	shell foundation slab
stainless steel	passivation		fixings
stainless steel	electropolishing	beadblasting	bench seat
extruded aluminium	chromate conversion	polyester powdercoat 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

Electrics

Connected to public lighting network

Factory tested for electrical insulation and dialectric 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

The environment

Optimisation of number of fluorescent tubes for best posting quality at minimum consumption

Powder paint used to eliminate organic solvent emmisions

Electronic ballasts used to achieve 15% energy saving

Fluorescent tubes 100% recycled at end of life

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

Trafic *Design Passenger shelter*

Technical description

JCDecaux