

Hydra design bus shelter



Technical description

JCDecaux

Hydra design bus shelter

Overview

JCDecaux

Colour



Chain Metal Grey
JCD 7002

Designed and developed
by JCDecaux

12 person capacity

4 seat capacity

6.5 m² covered area



Hydra design bus shelter

Technical description

Structure

Frame

Comprised of three tubular uprights and an advertising case topped by the roof assembly
The structure is calculated to withstand wind speeds up to 180km/h

Walls

An assembly comprised of rear and return glass, secured to the frame by glass cleats

Toughened glass used throughout (this type of glass forms small cube-shaped pieces in the event of breakage, avoiding the risk of injury)

Glass terminated a few centimetres above ground level to avoid accumulation of litter inside the shelter

Midrail

More resistant to vandalism and speeds up replacement of glass

Anti vandal panels

In the event of excessive breakages glass panels may be replaced with more durable material

Roof

A glass reinforced polyester composite construction, with RAL7035 pigmented gelcoat fitted with a 3 m² toughened laminated glass which cannot fall in the event of breakage

Maximum load bearing capacity 180 kg/m²

Rainwater drainage to ground level

Advertising case

Of aluminium extrusion construction, borne by top and bottom arms welded to a frame upright
Fitted with two top hinged doors

Dust and water ingress protection index: IP34

Houses the mains connection board

Lit with 3 fluorescent tubes

Excellent backlight quality provided by internal diffusers

Posters may be suspended by clips or a fold and rail system

Contributes to the internal illumination of the shelter

Lighting

Flush fitted into the roof with tamper-proof fixings to prevent vandalism

Blends elegantly with the design

Fed from the advertising case

Electrics

Connected to street lighting or mains supply

Supply 220/240V- 50 Hz

Protected by residual current circuit protection device (RCCD) 25A-30mA

Circuit breaker 6A

	POWER INSTALLED (VA)	CONSUMPTION* (kWh/day)
Shelter	36	0,41
Advertising case	216	2,48

* based on 4200 hours per year lighting

RTPI

All shelters able to integrate real time passenger displays

Fixings and wiring are in compliance with requirements

Prestige bench

Comprised of a 4 person seat with armrests on two legs secured to a foundation slab

Made of steel and powder coated same colour as structure of shelter

Foundations

Comprised of concrete slabs incorporating galvanized steel foundation sockets which receive the advertising case legs and posts

Services inlets are provided in the advertising case slab

Fitted with an earth grid with copper connection for earthing of the structure

The slab dimensions are optimised to minimise surface area occupied

Calculated for extreme weather conditions

A high quality finish is ensured around the posts



Foundation method

JCDecaux

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Material

Materials	Anti-corrosion treatment	Finish	Main items
steel	hot dip galvanizing	80 micron powder coating	bench
	spun galvanizing		foundation anchors
stainless steel		beadblasting and electropolishing passivation	return glass post fixings
aluminium	chromate conversion	80 micron powder coating	adcase ; timetable case
toughened glass 8 and 10 mm		silk screen printed enamel	vertical glass
glass reinforced polyester		gelcoat	roof
toughened laminated glass		pigmented	roof glass
synthetic rubber		mass pigmented	seals
B25 concrete			foundations

Standards

Design and manufacture conforming to ISO 9001 and ISO 14001

Mechanical
mechanical construction rules
aluminium construction rules
foundation calculations
eurocode 1, 2 and 3
Electrical
CE

Environmental considerations

Use of electronic ballasts to reduce power consumption by 20% in comparison with ferromagnetic ballasts

Use of organic solvent-free powder paint for furniture finish

Electronic and electrical equipment recycled in accordance with best practice

Furniture mainly manufactured with sustainable and recycled materials

Resistance to vandalism

Impact resistance index >IK10 (EN 50102 standards)

Locking of doors via a special security key

No visible fixings

No visible wires

Toughened glass walls

Toughened laminated glassroof

Made from materials resistant to outdoor exposure

Shelter visual detection and wheelchair access

Return glass features contrasting, screen printed markings for better visual detection

Entrance into shelter is through a 1 m gap ensuring wheelchair accessibility

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Key features



High quality materials
chosen for strength
and durability

Anti corrosion treatment
applied to ensure greater
longevity

Excellent weather protection

High resistance to vandalism

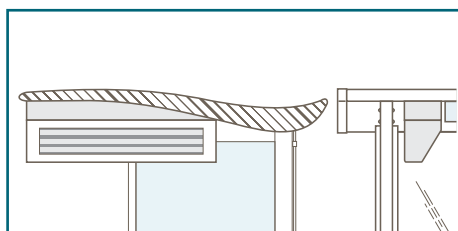
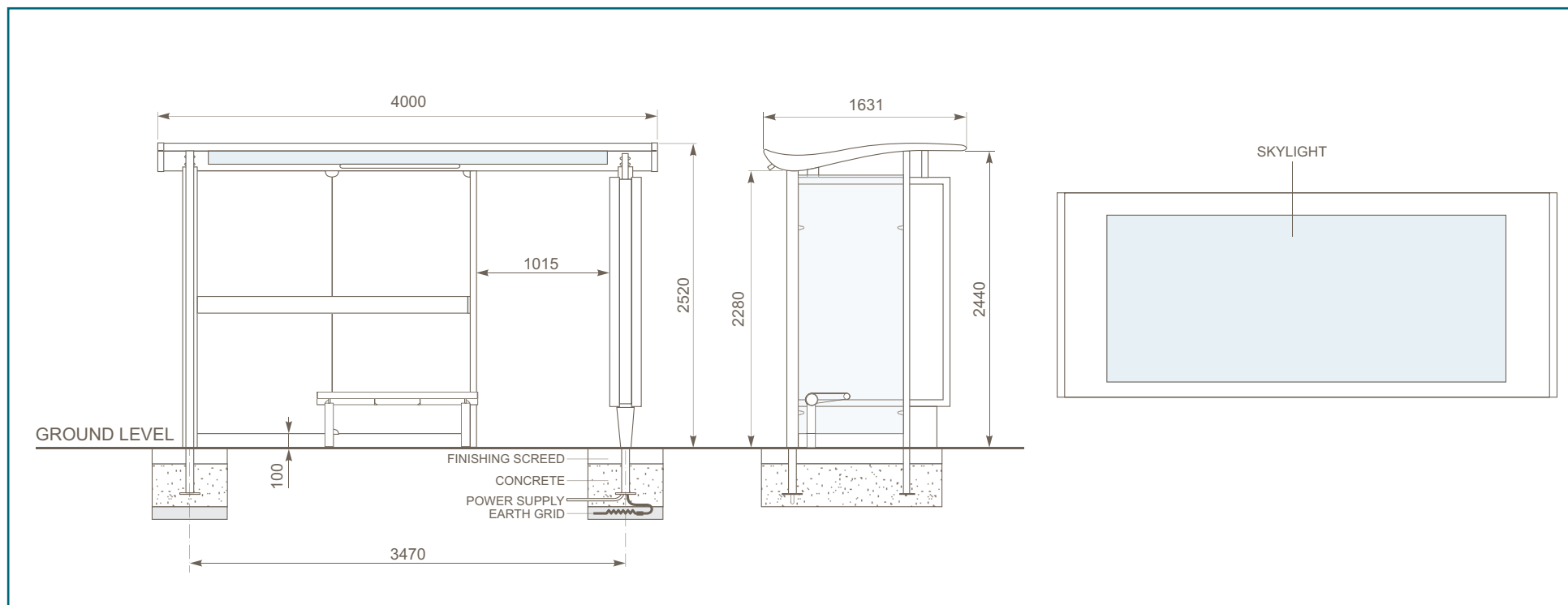
Ease of maintenance

JCDecaux

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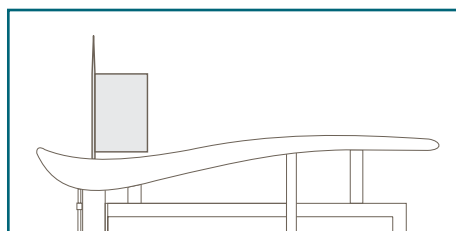
Drawing

JCDecaux



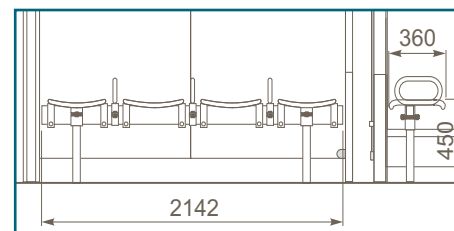
RTPI

In compliance with Council's requirements



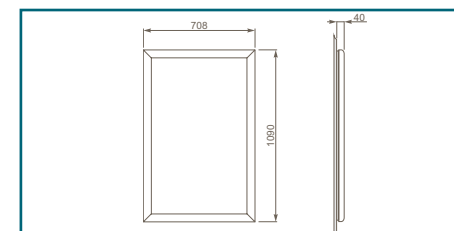
Bus stop flag

Roof structure with a fitting to secure a metal flag provided by Council



Prestige bench

4 seat bench with armrests



DDRU timetable display

Secured to one of the rear glasses
3 mm thick polycarbonate glazing

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Options

RTPI



QR Code - NFC Tag

The advertising faces will be equipped with NFC + QR Code equipment, that will be permanently installed on one side of the panel with a dedicated artwork. They lead the customer to an internet address that is rerouted depending on the ongoing campaign.

NFC technology is already used by JCDecaux for bespoke campaigns, although not all existing smartphones are equipped with dedicated readers. It is then completed by a QR Code which is now accessible via most available smartphones.



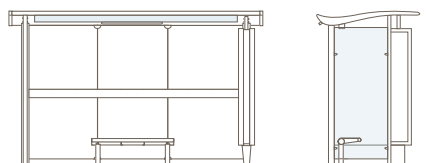
Hydra design bus shelter

Configurations

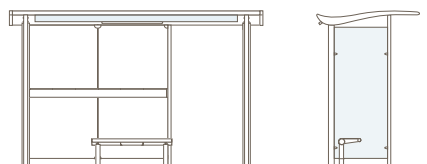
JCDecaux

Configurations

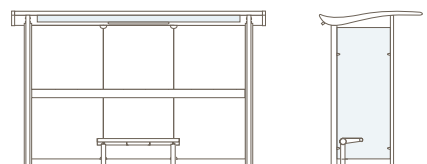
Different configurations in accordance with local installation constraints



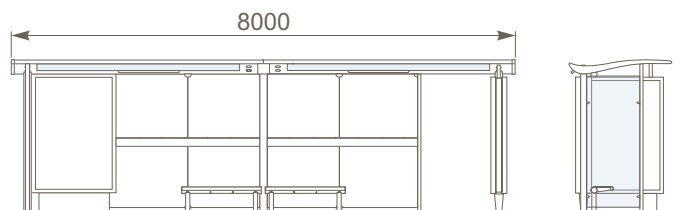
Advertising bus shelter



Non-advertising bus shelter with passage



Non-advertising bus shelter



Double advertising bus shelter with passage

Roof option

The roof can be made of solid polyester with no glazed panel
This option offers greater resistance to vandalism and is more cost effective

