

France – typical vehicle Technical data sheet July 2014

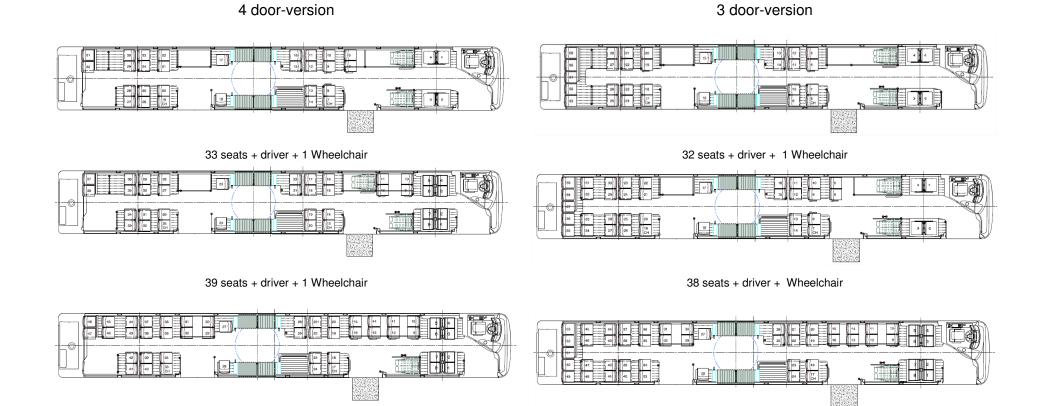
# WEIGHTS

Gross kerb weight	according to equipment
G.V.W max. permitted weight	30 000 kg
on front axle	7 245 or 7 500 kg
on middle axle	11 500 kg
on rear axle	13 000 kg

# DIMENSIONS

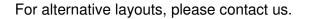
Overall length	17.980 m
Front/rear overhang	2.715/3.235 m
Front/rear wheelbase	5.355/6.675 m
Overall width	2.550 m
Total height, full load	3 100 m
Inside headroom	
front section	2 382 m
1 <sup>st</sup> step-height	
Door Nr1	0.320 m
Door Nr2, 3 & 4	0.330 m
Width of front/centre/rear doors	1.200 m
Front/rear tracking	2.086 m/1.870 m
Angle of attack/escape	7.4%7.4°





58 seats + driver + + Wheelchair

48 seats + driver + Wheelchair



### CHASSIS AND STRUCTURE

Self-supporting integral structure. Irisbus CS.S type steel chassis protected by electro-cataphoresis. Body structure consisting in 8 panels made of welded stainless steel sections and sheet panels. Assembling of the 8 panels to the chassis by bolting. 12mm thick plywood floor, protected by phenolic resin on both sides and wax-based resin on ground side.

#### **OPTIONS**:

. Fire detector in engine	. Fire detector and extinguisher
compartment.	in engine compartment.

# **PAINT & DECORATION**

Exterior paint : polyurethane lacquer finish (white, RAL 9010), without customising.

OPTIONS :		ceiling
. Custom finish	. Lettering and adhesives	
		DRIVE

## EXTERIOR EQUIPMENT

Left and right rear-view mirrors. Integrated flag holders. Wheel nut guards on front wheels.

#### OPTIONS :

. Self de-frosting rear-view mirrors . Side and rear advertising frames	. Motor driven and self de- frosting rear-view mirrors controlled from driving position
. Fender skirt	. Front and rear wheel caps . Wheels faired . Roof coating

## EXTERIOR TRIM

Composite front and rear ends, roof and side panels. Bonded assembly. Gravel resistant wheel arches. Composite front and rear bumpers in 3 parts.

#### GLAZING

TSA tinted panoramic laminated glass windscreen bonded on front face. Bonded side windows : right-hand side : 8 fixed single-panel windows and 1 tilting window / left-hand side : 8 fixed single panel windows, 3 tilting windows. Driver's window : sliding type in front part. TSA tinted glass all around.

#### OPTIONS :

. Heat-reflecting windscreen	. Heat-reflecting side windows
. Sliding type side windows	. Right-hand side : 2 tilting
. Lower windows on platform	window, left-hand side : 6
. Glazed roof Lumi'Bus ®.	tilting windows.

# ACCESS AND DOORS

3 inward swing doors. 2-leaf doors are air-driven. Both leaves of front door are double glazed. Brakes applied by opening of the  $2^{nd}$ ,  $3^{rdd}$  door. Manual access ramp on the central door. Buzzer on doors.

#### OPTIONS :

	. Brakes applied by opening of
. 4 door version	the front door
Floor mounted BIRCHER	. Electrical access ramp
step-on sensors doors 1, 3 & 4	. 2 <sup>nd</sup> &/or 3rd &/or 4th sliding
	doors
. Safety by photo-cells on	. Door opening by passenger
doors	. Self service
. Passenger counting system	Event de su O la sura
	independent opening
Floor mounted BIRCHER step-on sensors doors 1, 3 & 4 . Safety by photo-cells on	. Electrical access ramp . 2 <sup>rd</sup> &/or 3rd &/or 4th sliding doors . Door opening by passenger

## INTERIOR TRIM

High wear resistant floor covering up to plinths top. Laminated roof and side panels. Thermo-formed wheel arches. Polyester ceiling arches.

# DRIVER'S COMPARTMENT

Adjustable steering wheel (height and angle). Air-suspended driver's seat with adjustment control on right-hand side. VDV instrument panel with warning lamps and control display panel. Pivoting door, wall behind the driver with a glazed upper part. Interior rear-view mirrors. Left side and front sunvisor. Driver's individual light and luggage box. Average fuel consumption on dashboard

#### INTERIOR FINISHES

Front destination indicator with full opening door. TSA tinted glazed partitions on doors. 8 loudspeakers. « Emergency exit » hammers. Fire extinguisher location close to the driving position. 8 « stop requested » push buttons with acoustic warning. « wheelchair » space with padding and sensitive « stop requested » push button with acoustic warning.

#### OPTIONS :

. Padding on platform	. Fire extinguisher
. Additional « stop requested »	. Interior information frames
push buttons	. First-aid box (empty).
. Video surveillance	. Driver loudspeaker.

# **HEATING - COOLING**

Front heating/de-frosting unit used for driver's compartment, air from outside or re-circulated air. 4-speed control (power : 17 500 W). 2 passenger heaters (forced air, 7 500 W) with 2 speeds controlled from the dashboard. 4 air extracting fans t. Insulated roof.

# OPTIONS :

. Roof hatches (hand-actuated	. Additional heater in
or motor-driven)	passenger compartment
. Passenger and driver's	
compartment air conditioning	. Autonomous heater
. Driver's compartment air	
conditioning	

## SEATS LAYOUTS

Seat layouts according to the number of doors. 4 seats dedicated to people with reduced mobility. Epoxy stanchions and handrails. Grey epoxy-painted seat legs.

#### **OPTIONS** :

. Multi-branch stanchion on central platform.	. For passenger seats options (anti-vandalism upholstered,
	or other seat models etc)

## DESTINATION AND INFORMATION EQUIPMENT

Preparation for front, rear or lateral destination indicator. 3-off illuminated « stop requested » sign box at the front. Preparation for illuminated strip display behind the driver. Preparation for acoustic and visual information.

#### **OPTIONS**:

. Line stops map (single or	. Additional illuminated « stop
double sided) near the ceiling	requested » sign boxes
. Lateral destination indicators.	. Line number display
. Acoustic and visual	. Front destination indicator
information of destination	

## ELECTRICAL EQUIPMENT

24 V nominal voltage. 2-off 12 V 225 Ah maintenance-free batteries mounted on a sliding tray located in an outside compartment at the left-hand side behind the articulation. Battery loading and engine start FENWICK socket. 2-off 140+80 Ah alternators. Thermal circuit-brakers. Front lights : parking lights, dipped headlights, driving lights hinge fitted and turning lights. Rear lights : parking lights, stop lights, fog lights, reverse lights and turning lights. Marker lights visible from the driver's compartment thanks to exterior rear-view mirrors. 3speed electrical windscreen wipers with intermittent speed. Windscreen washer with wiper mounted nozzles. Passenger compartment lighted by fluorescent overhead lights (staggered lighting possible). Door step lighting at door opening. Lighting of driver's compartment, paving position. Engine compartment lighting. Electricity-saving system for intensive use whilst engine is off. Electrical cabinet located in the lower section of the wall behind the driver's seat and front left roof panel in trailer. Multifunction warning buzzer. Diagnosis system on board (1<sup>st</sup> level).

## **OPTIONS** :

. Complete radio equipment
. Monoring gong for pedestrian
zone
. 3 <sup>rd</sup> stop light
1 0

# DRIVE LINE ENGINE

DRIVE LINE ENGINE	
Engine position	transversal, at the rear
	FPT CURSOR 9
Emission level	Euro 6
	4-stroke, diesel
Stroke	
Number of cylinders	6
	upright, in line
Cubic capacity	
	c ratio17/I
	injection pumps
	exhaust turbocharger
	with intercooler
Cooling system	coolant circuit with thermostat, radiator
0,	located at the rear, silicon radiator
	hoses, circuit capacity : 75 L
Air filter	dry
	diesel
	oil circulation under
	pressure
	d ual-cartridge oil filter
Max. output	
·	at 2500 rpm
Max. torque	1 650 Nm at 1200 rpm
Electrical accelerator	
Sound proofing	noise shield and
	.encapsulation
	.of engine
	.compartment
Emergency stop	
	engine running
	compressed air + gearbox
	+alternator failure
	.+probe on coolant tank
Diesel pre-heater	·
•	

#### OPTIONS :

. IVECO CURSOR 9 output 294 kW (400 HP.	
. Nivostab constant oil level	

#### GEARBOX

ZF or VOITH automatic gearbox : 5 forward gears, 1 reverse gear. Pads drive. Counter reduction gear integrated in gearbox outlet.

	AR	1re	2e	3e	4e	5e	6e
ZF Ecolife 6 AP 1702	4,23	3,36	1,91	1,42	1	0,72	0,61
Voith Diwa D864.6	4,7	5,9	1,43	1	0,7		

# FRONT AXLE

Independent front wheels.

## REAR AXLE

ZF reverse portal axle 132-87°. Reducers in hubs 1/3.2.. Base axle torque : 6.20.

#### SUSPENSION

Constant height air suspension. 2 air bellows at the front, 4 air bellows in middle and at the rear. Constant floor height controlled by electrical levelling valves. Suspension high-position for driving over obstacles. Kneeling stroke) on vehicle right-hand side, controlled from the driving position.

#### **OPTIONS** :

. Anti-roll bar.

# STEERING

Hydraulic power assisted steering. ZF 8098power steering box.

#### COMPRESSED AIR

Pressure : 10 bars. 630 cm3 twin-cylinder air compressor. Driven by sprockets and cooled by the engine circuit. Polyamide and copper piping, quick fittings. Single tower air dryer. Manual bleeding on air tanks. Cyclone air cleaner.

#### BRAKES

Service brakes : air-controlled disc brakes. ABS braking system. Gear box built-in hydraulic retarder coupled to the service brakes. Pneumatic parking brake actuated by lack of air, spring chamber on axel 2 & 3. Door brake : manually controlled temporary stop operating on the rear braking circuit. Parking brake and door brake controlled via separate circuits. Emergency braking operated by parking brake.

**OPTION** :

ASR.

# FUEL TANK

Capacity: 350 litres. Tank filling spouts on vehicle right hand side, in front of articulation and 80 litres of additive. Tank filling spouts on vehicle right hand side, behind the articulation.

## WHEELS AND TYRES

275/70 R 22.5 tyres at the front. Twin tyres on axle 2 and 3.

#### OPTIONS :

. Rear towing eye bolts. . 455/45 R22,5 tyres if wheel	. Lose spare wheel or rim.
caps.	-

#### PERFORMANCES

Maximal speed : 85 km/h.

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