

# Waste Collection for Domestic Properties

## Planning Guidance



## Planning: Waste Collection from Domestic Properties

### Fenland's Waste & Recycling Scheme

We operate an alternate, fortnightly collection of refuse and mixed dry recycling. An annual opt in subscription-based garden waste service is also available to all properties. One-week refuse is collected and the next week mixed dry recycling is collected plus garden waste if residents subscribe.

Two waste streams are collected from all properties plus the option of the garden waste service:

- 1) mixed dry recyclables collection (blue bins)
- 2) residual waste collection (green bins)
- 3) Optional annual subscription-based garden waste service (brown bins)

### Bin Dimensions

Provision for domestic properties 3 x 240 litre wheeled bins (green residual waste, blue mixed dry recycling & brown garden waste subscription-based service)

For flats/high density development 660 or 1100 litre communal bins provided based on number and size of individual units.

- 240 litre wheeled bin 585mm wide, 740mm deep, 1100mm high.
- 660 litre four wheeled bin 1400mm wide, 770mm deep, 1215mm high.
- 1100 litre four wheeled bin 1400mm wide 1100mm deep, 1375 high.

### Collection Points/External Storage

Collection points will need to be of sufficient size to accommodate the required number of bins. Currently 3 x 240 litre bins per property for external storage, potential for up to 2 x 240 bins per collection.

Suitable off-street storage needs to be provided for the 3 x 240 wheeled bins with access to the boundary of the property where it meets the public highway for collection.

### Adopted roads

- Bins will require presenting at the curtilage of the property, where it meets the Public Highway on the day of collection.
- Steps to be avoided, pathways should be a smooth and solid surface.
- Residents should not have to take their waste and recycling more than 30m to a bins storage area and should not have to take bins more than 30m to the kerbside/collection point.

### Private Roads/Shared Driveways (Without access)

- Properties served by shared private driveways will require shared collection points where the drives/roads meet the public highway.
- Shared collection points need to be of sufficient size to accommodate up to 2 x 240 bins from each property.
- Residents should not be expected move bins more than 30m, Collection points should be no more than 10m from highway.
- Suitable surfaces to allow movement of bins (steps avoided, smooth and solid surface).

### Flats/Communal Bin Storage Areas

For flats or high-density developments communal bin stores will be required, the size and number of bins will dependent on number and type of units. In some cases, individual bins and shared collection point may be the best solution allowing households to manage their own waste.

- Ground floor with dropped kerbs.
- Suitable size to allow bins to be accessed and moved for collection:
  - Enough space to enable each bin to be moved independently, i.e. without moving other bins.
  - Sufficient clearance provided to allow full opening of container lid.
  - Minimum working headroom of at least 2m (where compound is covered).
  - 150mm clear space between and around containers.
  - A mechanism for holding doors open (door hooks).

- Adequate door widths: This is likely to be a minimum of 20cm in addition to the widest bin contained in the bin store.
- Keypad security entry (no keys)
- Residents should not have to transport waste and recycling more than 30m.
- Bin stores no more than 10m from public highway, indemnity and swept path plan if this involves access onto site including maximum 12m reverse distance.

### Access

Waste collection vehicles are likely to be largest vehicles regularly using streets, in addition to Highways requirements we would require:

- Swept path plan to demonstrate 11.5m refuse collection vehicle (this includes bin lifting equipment) can enter in a forward motion and turn on the public highway (Vehicle dimensions included in Appendix 1).
- Vehicles should be able to enter and exit a site in a forward's motion
- Not require vehicles to reverse more than 12m.
- Be constructed in accordance with relevant guidance to allow for up to a 26-tonne vehicle.
- Allow at least 4m vertical clearance. In addition, a minimum of 3.5m width and 4m in length should be allowed where the emptying of containers takes place. Sufficient overhead clearance should also be provided to allow for operation.
- No overhang other than wing mirrors on pavements or other areas adjacent the road.

Where the site is still under construction – a collection point must be designated and site staff to move the bins to this position on collection days.

### Private Roads

- Built to adoptable standards (26t collection vehicle) and indemnity required if to be used by collection vehicles.
- Indemnity required by Landowners/ future management companies against any damage to the roadway caused by wear and tear, weather damage or damage caused by a sudden and unforeseen event during collections by the council or its contractors, homeowners also to be made aware.
- Access requirements as per above.

### Purchase of bins

Refuse and recycling bins will be required to be provided as an integral part of the development i.e. developers pay for the bins and have in place before residents move in. New residents will require notification of collection and storage details by the developer before moving in and the first collection taking place.

21/22 fees

- 2 x 240 litre wheeled bins £50.00
- 3 x 240 litre wheeled bins £70.00
- 660/1100 litre wheeled bins £218.00 each.

### Appendix 1

Vehicle used OL – 23W 6 x 2RS (right hand column)



# OLYMPUS - 6x2RS Wide - Smooth Body RCV

Elite 6 - 6x2RS Wide Track

Euro 6 SPECIFICATIONS



Vehicle model	OL-20W 6x2RS	OL-21W 6x2RS	OL-23W 6x2RS
Compaction body type - effective volume(s)	Olympus 20W (19.6 m <sup>3</sup> )	Olympus 21W (21.4 m <sup>3</sup> )	Olympus 23W (23.2 m <sup>3</sup> )
Elite chassis type	6x2RS (Rear Steer) Wide Track		
GVW (Gross Vehicle Weight)	26000		
Front axle plated weight	8000 (7100*)		
Rear axle/bogie plated weight	19000		
Recycling box type	-		
Recycling box type (capacity m <sup>3</sup> )	-		
V1 Overall wheelbase	4800	5250	5650
Turning circle - overall (metres)	15.6***	16.9***	18.2***
Vehicle unladen weight**	13620	13800	14020
V2 Overall length <sup>§</sup>	8750	9190	9590
Overall length - tallgate raised <sup>§</sup>	9830	10270	10670
V3 Front axle to front of compaction body	650		
V4 Front overhang	1665		
Front overhang - cab tilted	3465		
V5 Rear overhang	2285		
Rear overhang - tallgate raised	3145		
V6 Overall height	3450		
Overall height - tallgate raised	5100		
V7 Height at exhaust tip - nominal	3500		
V8 Cab roof height	3130		
Cab roof height - cab tilted	3690		
V9 Cab floor height	825 Driver side, 885 Passenger side		
V10 First cab step height from ground	495		
V11 Rave rail height	1050		
V12 Ground clearance at lowest part of vehicle	250		
V13 Ground clearance - tallgate	410		
V14 Approach angle	15.5°		
V15 Departure angle	16°		

(\*) Optional front axle plated weight of 7100 kg with 295/80R22.5 tyres.

(\*\*) Typical rear mounted lifting device equipment will add up to 1200 kg.

(\*\*\*) Turning circle shown is for worst case, fitment of optional tyres may reduce turning circle.

(§) Excludes front view mirror which adds approx. 230 mm

**NOTE:** Unless otherwise stated, all dimensions are nominal, in mm and represent an unladen vehicle without a lifting device and fitted with standard tyres; tyre deflection is not included. All specifications are subject to manufacturers tolerances. An allowance of +/- 2% should be made for all weights. All weights are in kgs and include oil and water, and on diesel fuelled vehicles, AdBlue and 50 litres of fuel. Additional equipment may alter dimensions and weights quoted.

# OLYMPUS - 6x2RS Wide - Smooth Body RCV

## Elite 6 - 6x2RS Wide Track

## Euro 6 SPECIFICATIONS

### Chassis cab

- Elite 6 6x2RS (Rear Steer) Wide Track.
- Cab - Low floor with one step entry, Cromwell stainless steel construction, standard seating for driver + 3 crew, optional driver + 1 or driver + 4 seating.
- Engine - Volvo (Euro 6) D8K 280/320 bhp, 6 cylinder, 7.7 litre in-line diesel.
- Braking system - full air - twin circuit, EBS with Electronic Stability Program, Traction control (ASR), 4 wheel parking brake.
- Gearbox - Allison MD 3000, 6 speed automatic.
- Electronic Levelling Control (ELC).
- Front suspension - Full air self-levelling suspension with anti roll bar.
- Drive axle suspension - Self-levelling air suspension with chassis raise and chassis lower functions and anti-roll bar.
- Rear axle suspension - Trailing arm air.
- For detailed specification and options, see relevant Elite 6 Datasheet.

### Body

- Constructed from high tensile steel one piece rolled side sheets and braced by front and rear hoops, with pressed integral channels and 'keel' type floor.
- Sides in 4 mm S275 EN10025, Roof in S355 EN10025.
- Floor in three sections across width: 4-5 mm S355 EN10025.
- Rear hoop: 5-6 mm S355 EN10025.
- Barrier rails: 8 mm DOMEX 700 (700 N/mm<sup>2</sup>).
- Rear cross-member: 6 mm DOMEX 650 (650 N/mm<sup>2</sup>).
- Fitted with under-floor sump to prevent liquid seepage and to allow clean discharge of any liquid content. (100 mm depth).
- Only two greasing points in body and tailgate.

### Refuse Ejection Plate

- Ejection plate face is manufactured from high tensile abrasion resistant steel, forming a smooth and unobstructed discharge surface.
- Pressure regulation of the ejection plate from cab display.
- Self lubricating bearings guide the ejection plate along rails within the body.
- Multi-staged double acting hydraulic cylinder enables efficient ejection and retraction.

### Tailgate

- Optimised 2.8 m<sup>3</sup> swept volume capacity, resulting in fewer packing cycles, reducing wear, fuel consumption and noise.
- Full 2.2 m uncluttered loading width without lifting device.
- Low rave rail height for manual loading and versatile lifting device mounting with bolt-on rave rail adaptor for lifting devices.
- Substantial pressed side plates form integrated channels to guide the compaction mechanism.
- Hydraulic packer plate cylinders are positioned to eliminate damage from waste.
- Reduced overhang for improved weight distribution and manoeuvrability.
- Integral rear frame for lifting device mounting.
- Floor: 8 mm HARDOX 400 (400 HB- 1000 N/mm<sup>2</sup>).
- Sides: 7 mm HARDOX 400 (400 HB- 1000 N/mm<sup>2</sup>).
- Rave Rail: 4 mm HARDOX 400 (400 HB- 1000 N/mm<sup>2</sup>).
- Retainer Plate: 4 mm WELDOX 700 (700 N/mm<sup>2</sup>).

### Compaction Mechanism

- Proven two-plate fabricated carriage plate and packer plate design.
- Manufactured using high tensile abrasion resistant steel.
- Slides within tailgate channels on low friction self lubricating bearings.
- Heavy duty carriage and packer cylinders.
- The remaining structural elements are constructed in steel S355 EN10025 (355 N/mm<sup>2</sup>).
- Base sheet & tube: 4 mm HARDOX 400 (1000 N/mm<sup>2</sup>).
- Packer plate base: 6 mm HARDOX 400 (1000 N/mm<sup>2</sup>).
- Nominal 18 second cycle time.

### Hydraulic System

- Quiet, PTO mounted close-coupled standard pump delivers 88 litres/minute at 1000 rpm.
- Body mounted 125 litre tank with remote pressure fill.
- Full flow 10 micron return line filter controls contaminant levels.
- Engine speed is maintained by electronic throttle control system when hydraulic power consumption increases.
- Heavy duty inverted packer plate cylinders fitted with maintenance free spherical bearings.
- Heavy duty inverted compaction cylinders mounted outside the compaction mechanism, clear of the loading area.
- Roof mounted tailgate lift cylinders.
- Retention barrier with adjustable pressure.

### Electrical System

- Fully integrated CANbus system logic (CANopen) with integral axle load weight indication.
- Simple display unit in cab for body controls and diagnostics.
- Fully water-proofed side mounted junction box contained within a locker allowing easy access for diagnostics and maintenance via laptop.
- Number and colour coded wiring for easy identification, maintenance and fault finding.
- Weatherproof switch, plug and socket connectors.

### Safety

- **CE** Approved. Safe by design.
- Circuit designed to enhance Health & Safety features, and installation of lifting devices.
- Prepared for EN 1501-1:2011 & EN 1501-5:2011.
- Two-plate design, automatic body/tailgate locks and clean discharge remove the need to approach moving parts.
- Interlocks prevent the mechanism from working unless the tailgate is fully lowered.
- Automatic gearbox interlocks enhance safe operations.
- Tailgate lift rams are fitted with integral pilot operated load holding valves so that even if a hose fails, or is removed, the tailgate cannot descend unless positively powered downwards.
- Indicator icons show the driver when the mechanism is in operation, and when the tailgate is out of its locks.
- In cab discharge controls as standard, with external tailgate lower controls for optimised safety.
- Interlocked access door for safe maintenance operations.

### Options

- A range of compatible lifting devices and DIN frames are available.
- Ladder to access the side door of the body.
- Leachate tank between body and tailgate.
- Brush & shovel with mountings.
- Hand wash unit.
- Rubber packer plate flap.

Dennis Eagle Ltd. (the company) reserves the right to change the specification, design, material, procedures and dimensions of the vehicles described herein without prior notice at any time in the future, in accordance with the company's constant product improvement policy.

© Dennis Eagle Ltd. 2013

www.dennis-eagle.com

e: sales@dennis-eagle.co.uk

t: +44 (0) 1926-458500

Dennis Eagle Ltd. Heathcote Way, Heathcote Industrial Estate, Warwick CV34 6TE. UK

For more details of specifications and options please consult a Dennis Eagle Sales representative.

**DENNIS EAGLE**  




Fenland District Council | Fenland Hall | County Road  
March | Cambridgeshire | PE15 8NQ  
w: [fenland.gov.uk](http://fenland.gov.uk) | t: 01354 654321 | e: [info@fenland.gov.uk](mailto:info@fenland.gov.uk)