

Waste Management

The controls for waste management are defined in **Part A** of this plan and outline our measures to comply with statutory provisions for site waste management planning. Our policy is to reduce where practicable the creation of waste on site, recycling more and increasing the use of recycled and recovered materials. Waste reduction, increased recovery and greater use of recovered materials will deliver significant environmental benefits through diverting materials to landfill and reducing our carbon footprint, as well as improving efficiencies and cutting costs.

Waste management controls on the development are reviewed by our Contracts Manager. In addition, monitoring of their effectiveness are included in site monitoring arrangements detailed above in 'Monitoring of SHE Standards'.

The group employs a Waste Management Contractor on a national basis to manage our waste requirements, contribute to our strategy to reduce waste to landfill and monitor our developments.

Part A - The Waste Management Strategy for the Development

(i) Environmental Objectives

Objectives	Current levels (where applicable)
Reduce total volume of waste generated during construction by 10%	37.3 m ³ per unit legally completed
Increase waste segregated on site for recycling by 10%	58%

Targets for reduction of identified waste types/groups are set and recorded in the table 2 below.

I.a - Key methods identified during the design process and those to be used for waste reduction during the construction works.

In accordance with our Group Performance indicators, we are driving to reduce global total waste by 10%. The majority of this reduction is through refined manufacturing processes and positive ordering sequences. The materials identified within the waste streams have been discussed with our waste management contractor (Reconomy). As such they have specifically chosen a system to transfer generated waste to appropriate re-cycling plants.

I.b - Segregation and Control of Waste on site (Arrangements for reducing waste i.e. waste segregation)

Each waste stream has a designated and labelled tipping skip to transfer the waste to the onsite waster station. Each transfer skip is fully labelled in accordance with Barratt's Group Policy. During the induction of all trades, they are made aware of the waste management plan and their duties in relation to the same. The Waste Station is incorporated within the Site Traffic Management Plan. This is also reviewed weekly by the site manager and monthly by the contracts manager. All actions are recorded on the SHE Form 29 and actioned accordingly.

1 - Waste Streams Estimates, Options and Targets

This section of the plan sets out the waste types/groups that have been identified for reduction, reuse, recycling, diversion from landfill or to go to landfill and the options for managing each waste group/type. Once the waste and options have been identified targets are set for reduction, reuse and recycling.

Targets for reduction/reuse/recycling are set based on percentage improvement compared to waste arising on previous contracts with similar construction methodologies on a waste volume per 100m² floor area.

2 - Waste Options

(i) Waste Streams

<i>Material on Site</i>		Reuse and Recycling				
Expected Waste Material	Stage and Estimated Volume	<i>On-site</i> Specify proposed reuse or on-site recycling methods	Estimated/Target Volume (%)	<i>Off-site</i> Specify how and what method	Estimated/Target Volume (%)	Specify who to remove
Insulation	Stage 2/0.1T produced per plot	None, Place in segregated skip	0% Reused	To be removed via the Waste Management contractor and recycled/reused as per the SWMP	100% recycled off site	Reconomy
Electrical and electronic equipment	Stage 7/0.05T produced per plot	None, Place in segregated skip	0% Reused	To be removed via the Waste Management contractor and recycled/reused as per the SWMP.	100% recycled off site	Reconomy

Material on Site		Reuse and Recycling				
Expected Waste Material	Stage and Estimated Volume	On-site Specify proposed reuse or on-site recycling methods	Estimated/Target Volume (%)	Off-site Specify how and what method	Estimated/Target Volume (%)	Specify who to remove
Asphalt & Tar	Stage 8/0.5T produced per plot	To be utilised for hard standings as applicable around the site, including temporary onsite car parking.	100% reused		0%	
Tiles and ceramics	Stage 7/0.1T produced per plot	To be broken up and used under car parking.	100% reused		0%	
Plastics	Stage 7/0.2T produced per plot	None, Place in segregated skip	0% reused	To be removed via the Waste Management contractor and recycled/reused as per the SWMP.	95% recycled off site	Reconomy
Architectural features (except bricks)	Stage 4/0.1T per produced per plot	To be broken up and utilised for hard standings as applicable around the site, including temporary onsite car parking.	100% reused		0%	
Excavated Material	Stage 1/320T produced per plot	Inert material to be banded and stockpiled on site for use as in-fill or subsoil where applicable	75% reused	Consideration for other development usage prior to being removed from site.	25% exported to other sites	Arranged for via our Procurement Department and Site Engineers. Typically, Clive Hurt or O'Gara

Material on Site		Reuse and Recycling				
Expected Waste Material	Stage and Estimated Volume	On-site Specify proposed reuse or on-site recycling methods	Estimated/Target Volume (%)	Off-site Specify how and what method	Estimated/Target Volume (%)	Specify who to remove
Green Waste	Stage 1/30T produced per plot	Stockpiled and reused as mulch on landscaped areas.	100% reused		0%	
Bricks	Stage 3/0.4T produced per plot	Use for fill below garages	100% reused		0%	
Concrete	Stage 1/0.5T produced per plot.	No on site mixing facilities so generally no wastage generated. Overspill to be utilised under drives	100% reused	None	0%	
Packaging	Stage 8/2.9T produced per plot	None, Place in segregated skip	0% reused	To be removed via the Waste Management contractor and recycled/reused as per the SWMP.	100% recycled off site.	Reconomy
Timber	Stage 7/1.4T produced per plot	Any adequately sized off cuts etc are to be reused for head/cill protection and excavation pegs etc.	25% reused	To be removed via the Waste Management contractor and recycled/reused as per the SWMP.	75% recycled off site	Reconomy
Gypsum/Plasterboard	Stage 6/1.3T produced per plot	None. Place in segregated skip	0% reused	To be removed via the Waste Management contractor and recycled/reused as per the SWMP.	100% recycled off site	Reconomy

Material on Site		Reuse and Recycling				
Expected Waste Material	Stage and Estimated Volume	On-site Specify proposed reuse or on-site recycling methods	Estimated/Target Volume (%)	Off-site Specify how and what method	Estimated/Target Volume (%)	Specify who to remove
Canteen/Office (general waste)	Throughout build process/0.6T produced per plot	None. Place in segregated skip	0% reused	Removed via High Peak BC and so is subject to their own recycling commitments	100% diverted to landfill	Warrington BC
Hazardous	Stage 8/0.01T produced per plot	None. Placed in segregated hazardous waste skip	0% reused	To be removed via the Waste Management contractor and recycled/reused as per the SWMP.	100% diverted to licenced tip	Reconomy
Hazardous Liquids and Oils	Stage 1/1L produced per plot	None	0% reused	To be removed via the maintenance/service provider and recycled/reused as per the SWMP.	100% diverted to licenced tip	Reconomy

- Approximate volumes removed from site and diverted from landfill have been calculated on information received from Reconomy

Build Stages:

Stage 1 – Start Foundations

Stage 2 – Start Super Structure

Stage 3 – Finish Super Structure

Stage 4 – Finish Roof Tile

Stage 5 – Finish First Fixes

Stage 6 – finish Plastering

Stage 7 – Finish Second Fixes

Stage 8 – Finish Painting

Stage 9 – Build Complete

(ii) Identify key methods for waste reduction during the construction works and those identified during the design process.

All sub-contractors to be inducted to ensure that they are fully compliant with the Barratt waste reduction strategy.

A waste recycling point is to be identified and adequately secured to prevent possible vandalism and/or general access for the public. The waste recycling point will also ensure no cross-contamination of waste materials.

Materials pre-packed and manufactured off site where applicable and bundled together to enable delivery on a per plot basis. This includes:

- Roof Trusses
- First Fix Timber
- Stairs
- Internal Doors
- Second Fix Materials
- White Goods

(iii) Segregation and Control of Waste on site (Arrangements for reducing waste i.e. waste segregation)

A waste station will be erected in order to segregate waste. Identified mini-skips will be available during the construction of the site for different waste streams.

Tool box talks and SHE briefings will be undertaken with operatives when required. Posters will be visible to all operatives to clearly define examples of typical waste streams.

Ordering of materials is to be done in positive sequence to minimise waste.

(iv) Controls for Hazardous Waste

Hazardous waste station will be erected (lockable units) close to the compound. Amounts will be measured regularly in an effort to put actions in place to reduce this type of waste product.

All procedures to be discussed on induction with follow up tool box talks as necessary.

(v) Identify methods of monitoring waste produced and disposed of from the site

Monthly league tables and Reconomy monthly report will be used to monitor progress. Short-term monitoring of waste will be conducted through analysis of weekly KPI reports.

(vi) Waste activities requiring Environmental Permits

- Removal of spoil from site
- Contaminated ground materials
- Gypsum waste
- Waste transfer certificate displayed on site

(vi) Identify how waste effluent is removed from site i.e. waste from offices/site accommodation

Waste is connected to the local drainage system and removed via this Local Authority drainage system.

(vii) Confirm who has been contracted to control waste movement on site, and include copies of licences or registration documents

Reconomy: certificates held in SHE Management System.