Quality Protocol:

Bristol & Avon Transport & Recycling Ltd

Hallen Yard

Date	**June 2024**
Revision	**0.6**
Document Reference	**BAT/QP/06**

Site:
Area G
Severn Road
Hallen
Bristol
BS10 7SE

Permit Number EPRBB3204CV

1. **Products**

Type 1 Sub Base BS1377

6F5 Selected granular material (coarse grading) BS EN 13285

6C Selected granular material BS EN 932-1

1A granular material BS EN 1377

2. **Acceptance Criteria for incoming waste**

Acceptable wastes: Inert wastes outlined in Appendix A can be accepted

A visual inspection shall be carried out on every load, on initial receipt and after tipping, to

ensure compliance with the Acceptance Criteria. Appendix B

A record of each load delivered and accepted shall be kept for a minimum of 2 years

3. **Method Statement**

Please refer to Flow Chart in Appendix C

Staff will be trained in the visual inspection of permitted waste and the recognition of unpermitted wastes

All vehicles attending site to Dis-charge (dependant on the sites facilities), will be weighed and visually inspected before entering the tipping area.

3.1 PPE Requirements

- Gloves
- Safety Glasses
- Hi visibility clothing (when in the operational area, not enforced on the sort line)
- Safety boots
- Protective arm sleeves

The above PPE must be worn at all times for this operation.

3.2 Tipping:

- Banks man will call vehicle forward.
- Banks man will reverse vehicle into the designated area.
- Driver is to un-sheet the load ready for inspection.
- Bristol & Avon staff will visually check load for non-conforming waste, condition of material to ensure it is acceptable under the sites criteria if it does not match the sites criteria the vehicle will be removed to a safe location.
- Site Manager will initiate the rejection process laid out below.
- If no problem is found the vehicle may discharge its load.
- During discharge Bristol & Avon staff will conduct a visual check of the material for unpermitted waste types.
- Any unpermitted waste types will be taken out and segregated and quarantined. Bristol & Avon will decide on the course of action to be taken Reference load rejection procedure below.
- A Rejected load form will be completed by Bristol & Avon Manager/Supervisor. Form ref:BTR-RF2
- When vehicle has discharged its load, the banks man will ensure that the vehicle driver has secured all doors and allow the vehicle to return to the weighbridge.

Each incoming load will be visually checked by Bristol & Avon staff and Management, and the following procedures would be adhered to.

3.3 Load rejection non tipped waste:

- If the load is contaminated it will not be tipped.
- The driver will park the vehicle in a safe area.
- Bristol & Avon management informed.
- Bristol & Avon management will inform the customer of the contamination within the load.
- The load will receive a rejection certificate containing:
- Date,
- Vehicle registration number,
- load or round number,
- Drivers name,
- Person rejecting the load
- Reason for rejection.
- Vehicle will leave site.

3.4 Load rejection tipped waste:

- If a load of contaminated material has been tipped, the vehicle driver is to park in a safe place and wait instruction.
- Bristol & Avon management informed.
- Bristol & Avon management will inform the customer of the contamination within the load.
- Mobile plant operator will reload non-conforming material into the customers vehicle.
- If the vehicle has left site the non-conforming material will be quarantined
- The tipping company will be required to make arrangements for the collection of the contaminated material.
- The load will receive a rejection certificate containing.
- Date,
- Vehicle registration number,
- load or round number,
- Drivers name,
- Person rejecting the load
- Reason for rejection.

4. Processes

After the vehicle has been tipped and inspected the material will be segregated into type and either fed through the crusher or the screener.

Material fed through the crusher will be fed into the feed hopper which will in turn feed the material through the jaws of the crusher.

The material will be fed on to the discharge belt passing underneath a magnet as it travels up the conveyor to remove any metals.

The discharged material will be handpicked to remove any other contaminants.

Material will be processed through the screener to achieve grades of.

Recycled Type 1 BS1377

6F5 Selected granular material (coarse grading) BS EN 13285

6C Selected granular material BS EN 932-1

1A granular material BS EN 1377

5. Inspection and Testing Regime

Every incoming load is visually inspected as a minimum. Grading testing, to BSEN 933-1,

Is carried out weekly to monthly dependent upon production quantities. In accordance with Appendix B

Records

Records of incoming wastes and products will be kept and will include.

- Waste carriers licences.
- Waste transfer notes.
- Rejection notes.
- Incoming and outgoing tonnages.

Statutory record keeping requirements for waste are observed.

6. General Uses

The list below indicates general areas of use.

· Concrete.

· Pipe bedding.

· Unbound/hydraulically bound

· sub-base.

· Capping.

· Structural fills.

Appendix A

European Waste Catalogue		
EWC Code	Description	Restrictions
17 01 01	Concrete including solid dewatered concrete.	Selected construction and demolition process waste. waste acceptable only with low content of other types of materials (like metals, Plastic, organic, wood, rubber etc. The origin of the waste must be known
17 01 02	Bricks	
17 01 03	Tiles & Ceramics	
17 01 07	Mixtures of concrete, bricks, tiles and ceramics	
17 05 04	Soils and stones including gravel, crushed rock,	Excluding soil and stones from contaminated sites
07 05 08	Road base, and planning's and track ballast	
20 02 02	Soils and stones restricted to parks waste	Only from garden and parks waste; Excluding topsoil, peat

Appendix B Approved industry standards and Factory Production Control

Approved industry standards

The producer must comply with all the requirements of a BS EN aggregates standard appropriate to the use for which the aggregate is destined for at the time it is produced to comply with this Quality Protocol. Table B1 details the standards and main specifications relating to aggregates at the time of publishing this Quality Protocol.

Table B1: Standards, specifications and quality controls for the use of aggregates

Product and Use	Standard	Specification	Quality Control
1 Unbound recycled aggregate: Pipe bedding Drainage	BS EN 13242: Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction	Highways Agency Specification for Highway Works (SHW): Series 500 Highway Authorities and Utilities Committee (HAUC): Specification for the reinstatement of openings in highways (SROH)	BS EN 13242: Level 4 Attestation Evaluation of Conformity to BS EN 16236* SHW: Quality Control procedures in accordance with the Quality Protocol for the production of aggregates from inert waste SROH: Compliance with SHW
2 Unbound recycled aggregate: Granular fill General fill Capping	BS EN 13242: Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction	Highways Agency Specification for Highway Works: Series 600 HAUC: Specification for the reinstatement of openings in highways BS EN 13285: Unbound mixtures: Specifications	BS EN 13242: Level 4 Attestation Evaluation of Conformity to BS EN 16236* SHW: Quality Control procedures in accordance with the Quality Protocol for the production of aggregates from inert waste SROH: Compliance with SHW
3 Unbound recycled aggregate: sub base	BS EN 13242: Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction	Highways Agency Specification for Highway Works: Series 800 HAUC: Specification for the reinstatement of openings in highways BS EN 13285: Unbound mixtures: Specifications	BS EN 13242: Level 4 Attestation Evaluation of Conformity to BS EN 16236* SHW: Quality Control procedures in accordance with the Quality Protocol for the production of aggregates from inert waste SROH: Compliance with SHW

Product and Use	Standard	Specification	Quality Control
4 Recycled aggregate for concrete	BS EN 12620: Aggregates for concrete	Highways Agency Specification for Highway Works: Series 1000 BS 8500-2: Concrete	BS EN 12620: Level 4 Attestation Evaluation of Conformity to BS EN 16236* SHW: Quality Control procedures in accordance with the Quality Protocol for the production of aggregates from inert waste
5 Recycled aggregate for asphalt	BS EN 13043: Aggregates for bituminous mixtures and surface treatments for roads, airfields and other trafficked areas	Highways Agency Specification for Highway Works: Series 900 HAUC: Specification for the reinstatement of openings in highways	BS EN 13043: Level 4 Attestation Evaluation of Conformity to BS EN 16236* SHW: Quality Control procedures in accordance with the Quality Protocol for the production of aggregates from inert waste SROH: Compliance with SHW
6 Recycled aggregate for hydraulically bound mixtures	BS EN 13242: Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction	Highways Agency Specification for Highway Works: Series 800 HAUC: Specification for the reinstatement of openings in highways BS EN 14227-1 to 5 Hydraulically Bound Mixtures: Specifications	BS EN 13242: Level 4 Attestation Evaluation of Conformity to BS EN 16236* SHW: Quality Control procedures in accordance with the Quality Protocol for the production of aggregates from inert waste SROH: Compliance with SHW
7 Reclaimed asphalt for use in bituminous mixtures	BS EN 13108-8 Bituminous mixtures – Material specifications – Part 8: Reclaimed asphalt.	Highways Agency Specification for Highway Works: Series 900 BS EN 13108-1 to 5 Bituminous mixtures – Material specifications	BS EN 13108-8 NHSS Sector Scheme 14 SHW: Quality Control procedures in accordance with the Quality Protocol for the production of aggregates from inert waste SROH: Compliance with SHW

Table B2: Summary of testing requirements associated with particular end uses and standards (Note: Testing frequencies should be increased where variability is identified through Factory Production Control and where the measured value is close to the specified limit.)

End use	Standard and Specifications	Test	BS test reference	Minimum test frequency (see B2.8)
All end uses	BS EN 13242 BS EN 12620	Particle size Distribution Particle density Resistance to fragmentation (LA) Classification of constituents(see table B3) Water soluble	EN 933-1 EN 1097-6 EN 1097-2 EN 933-11 EN 1744-1	1 per week 1 per month 2 per year 1 per month 1 per month
Aggregates for concrete	BS EN 12620	Particle density and water absorption Sulphur containing compounds Chlorides Influence on setting time of	EN 1097-6 EN 1744-1 EN 1744-5 EN 1744-6	1 per month 2 per year 2 per year 2 per year

Tests are not exhaustive and reference should be made to relevant standards and specifications for additional requirements. Tests for BS EN 13043 and additional minimum test frequencies for other aggregate standards are tabled in EN 16236.

Table B3: Classification of constituents: testing to BS EN 933-11, classification groups

Code	Constituents
Rc	Concrete, concrete products, mortar, concrete masonry
Ru	Unbound aggregate, natural stone, hydraulically bound
Rb	Clay masonry units (i.e. bricks and tiles), calcium silicate masonry units, aerated non-floating concrete
Ra	Bituminous materials
Rg	Glass
FL	Floating material in volume
X	Cohesive (e.g. clay and soil), metals, wood, plastic, rubber, gypsum plaster

Notes: Maximum permitted for constituent X: 1% by mass.

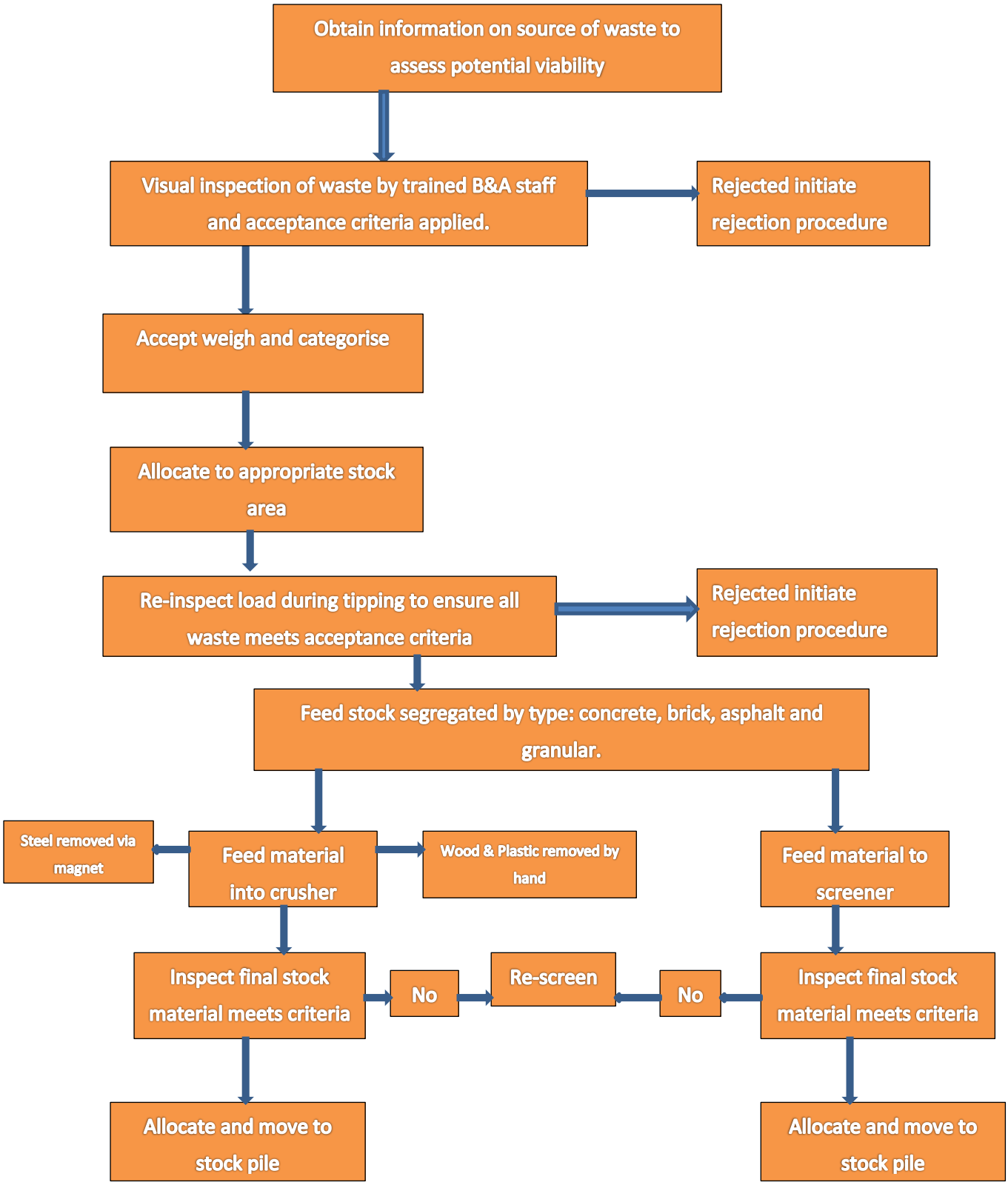
Maximum permitted for constituent FL: ≤10 cm /kg unbound, ≤5 cm /kg aggregates for concrete

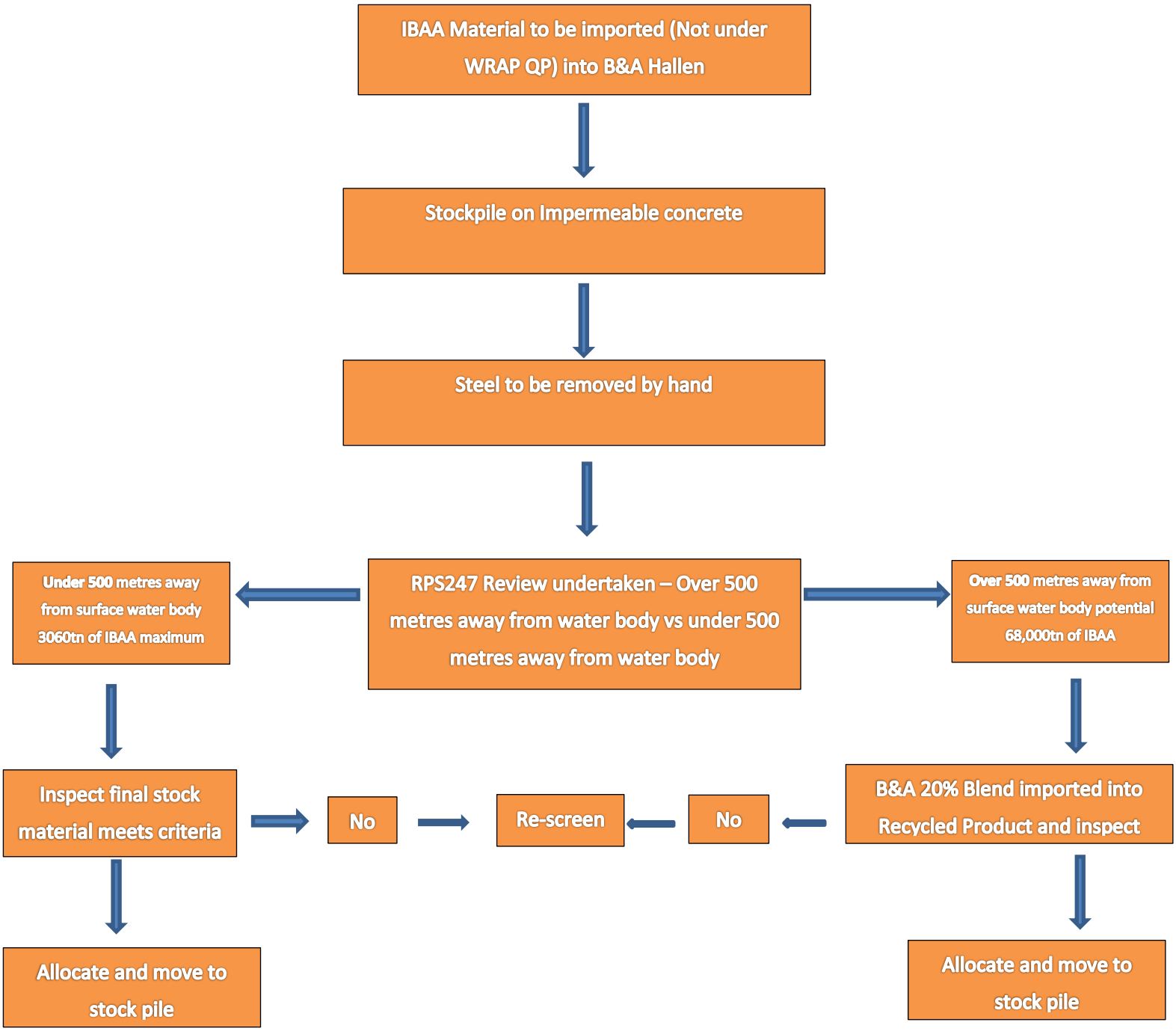
Table B4: Example of supplementary testing to meet Specification requirements.

End of Use	Standard & Specification	Test	BS Test Reference	Minimum test frequency (see section B2.7)
Unbound fills Capping Sub-base	SHW Series 600 & 800 SROH	California Bearing Ratio Plasticity of fines frost heave	1377: Part 4 1377: Part 2 812: Part 124	1 per Month 1 per Week 1 per Year

Tests are not exhaustive and reference should be made to relevant standards and specifications for additional requirements

Appendix C


Obtain information on source of waste to assess potential viability
Visual inspection of waste by trained B&A staff and acceptance criteria applied.
Rejected initiate rejection procedure
Accept weigh and categorise
Allocate to appropriate stock area
Re-inspect load during tipping to ensure all waste meets acceptance criteria
Rejected initiate rejection procedure
Feed stock segregated by type: concrete, brick, asphalt and granular.
Steel removed via magnet
Feed material into crusher
Wood & Plastic removed by hand
Feed material to screener
Inspect final stock material meets criteria
No
Re-screen
No
Inspect final stock material meets criteria
Allocate and move to stock pile
Allocate and move to stock pile


IBAA Material to be imported (Not under WRAP QP) into B&A Hallen
Stockpile on Impermeable concrete
Steel to be removed by hand
RPS247 Review undertaken – Over 500 metres away from water body vs under 500 metres away from water body
Under 500 metres away from surface water body 3060tn of IBAA maximum
Over 500 metres away from surface water body potential 68,000tn of IBAA
Inspect final stock material meets criteria
No
Re-screen
No
B&A 20% Blend imported into Recycled Product and inspect
Allocate and move to stock pile
Allocate and move to stock pile