Leeds CITY COUNCIL

APPENDIX 2

PLASTIC WHEELED BINS AND RECYCLING PRODUCTS

Physical Testing

Plastic wheeled Bins (various sizes) Galvanised metal wheeled bins (various sizes)	
Quality of mouldings	• Visual checks to ensure no burrs or sharp edges are present. • A visual check in order to assess the uniformity of the material density across all areas of the bin. • An assessment of the presence and effectiveness of any reinforcement areas around the comb lift receiver, base, axles and handles etc.
Compatibility with bin lifts (This test will take place whilst the bin contains a half load of newspapers in order to simulate a full bin)	• The bin will be presented to a vehicle, lifted as if being emptied and then lowered. This test will be repeated 25 times and a judgement will be made as to how easily the bin engages with the lifting comb mechanism and whether there are any issues identified in relation to gaining proper alignment with the lifts. • An assessment will be made as to whether there are any signs of or occasions where the bin becomes disengaged from the lifting comb mechanism.
Strength/durability of product (This test will take place whilst the bin contains a half load of newspapers in order to simulate a full bin)	• The lift test described in the above section will be conducted with a full load of newspapers in order to simulate a full bin. • An inspection of the bin following the lifting test described above section assessing the integrity of the bin and whether there are any signs of failure either in the body of the bin structure itself and/or the comb lift receiver. • The bin will be pushed from a raised surface of around 2 feet and a subsequent inspection will be made to assess the integrity of the bin in all respects. This test will be repeated 10 times.
Quality/design of wheels, axles, tyres and castors etc. (This test will take place whilst the bin contains a half load of newspapers in order to simulate a full bin)	• Effectiveness of brakes (where applicable) will be tested with a full load on a ramp. • Wheels and castors will be tested for how easily they can navigate up and down kerbs without any of the braking mechanism (if applicable) coming into contact with the kerb itself and/or evidence of damage to the castor/brake after the test.
Design features	• The ability that the lid has to ensure there is no pooling of water on top or any possibility for the seepage of water into the container itself. • The design of the lid handle and the ease with which it can be gripped, particularly taking into account the operation in wet

	weather, the ability to grasp and lift the lid whilst wearing safety gloves.
H&S considerations (This test will take place whilst the bin contains a half load of newspapers in order to simulate a full bin)	• The ease with which the bin can be lifted from its upright position to a moving position and the ease in which it can be manoeuvred. Includes the navigation of kerbs and steps.

Kerbside and other plastic recycling containers (e.g. food caddies)	
Quality of mouldings	• Visual checks to ensure no burns or sharp edges are present. • A visual check in order to assess the uniformity of the material density across all areas of the container. • An assessment of the presence and effectiveness of any reinforcement areas.
Strength/durability of product (This test will take place whilst the container is half full of bagged sand in order to simulate a full container)	• The full container will be dropped from a height of 1.5m to simulate an operative dropping a container during a collection round. • An inspection of the container following the dropping test will assess the integrity of the bin and whether there are any signs of failure either in the body of the bin structure itself or the handle. • The test will be repeated 10 times.
Quality/design of lid and handle (This test will take place whilst the container is half full of bagged sand in order to simulate a full container)	• The ability of the lid to ensure there is no seepage of water into the container • The compatibility of the lid with the main body of the container and the ease of the lockable mechanism in securing the close. • The design of the handle and the ease with which it can be gripped, particularly taking into account the operation in wet weather, the ability to grasp and lift the lid whilst wearing safety gloves.
H&S Considerations (This test will take place whilst the container is half full of bagged sand in order to simulate a full container)	• The ease with which the bin can be lifted from its presented position and moved to the collection vehicle taking into account weather conditions and safety gloves.