



# LOVE NZ GUIDE to *Selecting* and *Positioning* *Recycling Bins*

This Guide is produced by the Glass Packaging Forum as manager of the Love NZ brand



# 1. Choosing the right recycling bin

Choosing the right design for your recycling bins and installing them in the best location can make a big difference to getting people to use the bins correctly. The recycling bins in this guide represent some of the options chosen by councils and organisations involved in the Love NZ programme.

The key considerations before deciding which recycling infrastructure is right for your business or organisation are:-

## How is recycling collected in your region?

There is a correlation between how recycling is collected at kerbside and how it is collected in public place 'street' bins. If people are used to separating their glass and paper from a mixed collection of cans and plastic at home, they will be able to replicate this behaviour when they are away from home.

Dunedin City Council has installed a unit comprising a glass bin; separate commingled bin for rigid plastics, cans and a waste bin which mirrors the household collection methodology. Dunedin City Council consistently collects around one tonne of glass, plastic and cans through its 59 Love NZ bins around the city with a low 4-5% contamination rate.

Increasingly overseas we are seeing fewer commingled bins and the use of recycling pods which allow people to separate their recycling by material type.

## Choose the right size bin!

Recycling bins come in a variety of shapes and sizes from 45 litre capacity bins up to a multiple of 240 litre units. The obvious first consideration is the amount of space available. Smaller bins can be planted on poles at pedestrian height to make them easy to use however the smaller the bin the more often it will need to be emptied.

BP's Love NZ recycling bintainers at Wild Bean Cafe locations in Auckland are collecting an average 350kg per month with some service stations recycling over 1 tonne of packaging a month.





## Quality of the bin

Recycling Bins may need to withstand extreme weather conditions and considerable wear and tear. It is important that the bin is manufactured from materials which can stand up to New Zealand's weather. Some bins have been replaced because they were not 'up to the job'. However many of the Love NZ bins installed as part of the first Government funding round in 2009 are still in good condition around the country. Suppliers should be able to recommend the best product for your location. If stainless steel is being used stakeholders in a recent Love NZ survey recommend 'high grade stainless' to prevent rusting and quality issues.

## Reducing contamination levels

The first rule is to make sure the recycling bin is placed next to a rubbish bin. This can be within a recycling / waste unit or adjacent bins. Put simply if there is no waste bin available people will put their rubbish in the recycling bin.

The level of contamination in the Love NZ bins varies considerably around the country but is on average 7% for those councils and organisations which report on this.

Use the design of your recycling bin lid to limit contamination. Putting access holes in the lid limits what can be put in the recycling bin and a round hole reminds people of the shape of bottles and cans that can be recycled.

## Using colour to increase awareness

Before the Rugby World Cup in 2011, participating regions collectively agreed to use international colour code for the bin lids used with wheelie bins in stadia and fanzones around the country.

The agreed colours are:-

**PMS 361**

**ORGANICS**

**PMS 108**

**MIXED RECYCLING**  
(plastic/cans)

**PMS 541c**

**PAPER**

**PMS 299**

**GLASS**

**PMS 032**

**WASTE RUBBISH**

Using internationally recognised colour codes to identify what goes into different bins will help New Zealanders and tourists choose the right bin for their waste wherever they travel in the country.

If you don't want to powder coat the bins put signage and labels in the right colours to make what goes in the bins clear.





*Clear and simple labelling on the recycling bins helps with pictures often telling a better story than words.*



## Location, location, location

Just as in real estate, where your 'street furniture' is placed makes a big difference.

There are some obvious criteria:-

- Frequented communal area
- Tourist hot spot
- Area of high foot traffic
- Close to bus stop
- By seated area
- By pedestrian crossing
- By children's play area
- In shopping centres - close to entrance and exit and between food retailers

And some less obvious...Hastings District Council found that moving the Love NZ bin from the shaded side of the street to the sunny side increased recycling by up to 50%.

Bayfair Shopping Centre in Tauranga moved one of its recycling bins to a new children's play area which resulted in higher usage.

## How much does a bin cost?

This really is a how long is a piece of string question as it depends on the style of bin selected. A 60 litre recycling bin will be considerably cheaper than a three way recycling station. There is a difference in price between stainless steel and moulded plastic.

However the one off capital cost of buying the bin is not the only consideration. The recycling bin is the gift that keeps on giving—but only if it is emptied regularly! Generally speaking the larger the bin, the less often it will need emptying so whilst the capital cost may be higher for a three way recycling station than a single recycling bin, the ongoing servicing costs may be lower.

The average price of the recycling bins purchased in the Love NZ programme is around \$1080 per bin (this takes into account a single bin, dual bins and three way bin units).

The average cost for servicing a recycling bin per annum is estimated at around \$800.





▲ Recycling and waste bins in Christchurch'

▼ Love NZ recycling bin in Ruapehu – near seated and communal area adjacent to i-site

*Some regions, such as Christchurch and Wellington, have adopted internationally recognised colour codes to identify their street bins.*



## 2. Types of Love NZ recycling bins around New Zealand



### Tilt bins - 60 litre glass, waste and commingled recycling

A strong steel or timber bin with a capacity of 60 litres. The galvanised frame make this bin ideal not only for a marine environment, but also parks and reserves or any public environment.

*Used : Palmerston North*

SUPPLIER : AE Tilley  
[www.aetilley.co.nz](http://www.aetilley.co.nz)



### Dual Webber recycling/waste bins

60 litre capacity recycling bin which can be planted on pole or surface mounted. Available in powder coated or stainless steel option.

*Used : Interislander; KiwiRail; Auckland Airport & Hamilton City and New Plymouth*

SUPPLIER : FEL Group  
[www.streetfurniture.co.nz](http://www.streetfurniture.co.nz)





### Surface mounted 45 litre Civic bin

Made from galvanised mild steel powder coated to colour of choice, with an aluminium lid, the robust and sturdy Civic bin will stand up to the harshest treatment for years. The Civic bin is available in two sizes, with recycling livery optional. It can be installed surface, in ground or post mounted as required.

*Used : Wellington Waterfront & Z Energy Christchurch*

**SUPPLIER :** MetalArt  
[www.metalart.co.nz](http://www.metalart.co.nz)



### 120 or 240 litre Esplanade recycling bin – houses a single wheelie bin

The Esplanade bin is constructed with a lockable perforated aluminium door and plain aluminium side panels all mounted on a galvanised steel frame all finished using any standard powder coat colours.

*Used : Ruapehu*

**SUPPLIER :** AE Tilley  
[www.aetilley.co.nz](http://www.aetilley.co.nz)



### Recycling Pod 70 litre - each pod to create multiple recycling centre

Double pods and single pods can be configured to suit individual requirements with the option of grouping frames to house three to six pod units. Stainless steel construction with galvanised steel liner with 70 litre capacity per section. Surface mounting only.

*Used : New Plymouth, Hastings, Motueka & Tasman*

**SUPPLIER :** FEL Group  
[www.streetfurniture.co.nz](http://www.streetfurniture.co.nz)



### 240 litre materials recycling centre containing wheelie bins

Typically available as three enclosures joined together with a curved roof covering the complete centre to accommodate 240 litre wheelie bins. Available in standard powder coat colour.

*Used : Kaikoura & Ruapehu*

**SUPPLIER :** AE Tilley  
[www.aetilley.co.nz](http://www.aetilley.co.nz)



We selected this bin because it is able to house a 240L wheelie bin and this is best fit with our contractors infrastructure and also because the aesthetics fit well with our urban environment. So far the bin has performed well —easy to maintain and empty. The aperture may be too large (lets in household waste) if this proves to be the case we will fit rubber flanges to the aperture.

*Karen Lee, Nelson Council*

The Raglan stainless steel bins were chosen because they are being located in coastal communities. We also have two other colour coated bins that we have used in the past that seem really smart and good to look at. Size seems to work well on a weekly pick up. We probably would make the same selection again due to people being familiar with the bins.

*Dwayne Pomana, Gisborne Council*



## Goliath 240 litre recycling bin

This recycling bin houses a 240 litre or 120 litre wheelie bin. Available in stainless steel, ali-wood, powder coated aluminium and timber. Reversible panels for swift and easy maintenance. The supplier Help Enterprises is a social enterprise that has a clear and simple objective, “to enhance the lifestyle and independence of people with disabilities”.

*Used : Nelson*

**SUPPLIER :** Help Enterprises  
[www.helpmanufacturing.com.au](http://www.helpmanufacturing.com.au)



## Raglan 100 litre recycling bin

Powder coated mild steel or stainless steel body.  
Surface mounted with locking door.

*Used : Gisborne, Hamilton & Taupo*

**SUPPLIER :** FEL Group  
[www.streetfurniture.co.nz](http://www.streetfurniture.co.nz)



### Heritage 3 bay recycle unit

This fibreglass manufactured bintainer weighs approximately 45 kgs empty. Each container can take 100 litres per bay.

*Used : Dunedin*

**SUPPLIER :** McFarlane's Fibreglass Engineering  
03 471 0623

“

We chose it over other bin designs because:

The bin was be made to order; same colour and general design as our existing litter bins, utilising the same 100 litre bin liners used by the contractor who now services both the litter bins and permanent public places recycling bins and the bin matches other street furnishings.

- The three bins, contained within the one unit, gave us the opportunity to separate glass from commingled recyclables and provide for a rubbish bin to lessen contamination in other two bins.
- The bins are made of fibreglass which is very durable, light and repaired easily if damaged.
- The permanent recycling stations are showing a 95% return of recyclables—so people are seeking them out to put their recyclable materials in. The contamination is largely disposable coffee cups and paper packaging we don't recycle from public bins in Dunedin due to levels of food contamination. The glass bin is the least contaminated as it is clearly understood what this bin collects. There is greater ambiguity around the term mixed recycling even though the words plastics and cans appear on the signage.
- Council will continue to use this bin style for public places recycling as the infrastructure is rolled out into other areas of Dunedin and with bin renewals.

Cath Irvine, Dunedin City Council

”





## Bintainer

The bintainer locks your wheelie bins in a fibreglass container designed and manufactured in New Zealand in a colour of your choosing. The bintainer is suitable for use at sports grounds, motels/hotels, retail/ shopping malls, camping grounds, golf courses, hospitals, petrol stations, schools, restaurants, stadiums and parks.

*Used : BP, U-wash & Glass Packaging Forum for its mobile glass bottle banks*

**SUPPLIER :** Tru-Tech Fibreglass Industries Ltd  
[www.tru-tech.co.nz](http://www.tru-tech.co.nz)

BP selected the bintainer unit for the following reasons:-

- Suitable for garage forecourt where there is heavy duty traffic and inflammables.
- Consistent design in multiple locations across the country therefore needs to be able to withstand all weather conditions expected across country.
- Choice of three units based on discussions with the recyclers about keeping particular materials separate to maximise revenues (ie newspapers are separate as frequently recycled at garage forecourts out of cars, glass because many locations want it separated).



### Mayfair 60 litre recycling bin

can be planted on pole or surface mounted. Available in powder coated or stainless steel option. Galvanised steel liner 60 litre capacity per bin.

*Used : AJ Hackett; Strait Shipping & Hamilton*

SUPPLIER : FEL Group  
www.streetfurniture.co.nz



### Eco-bin

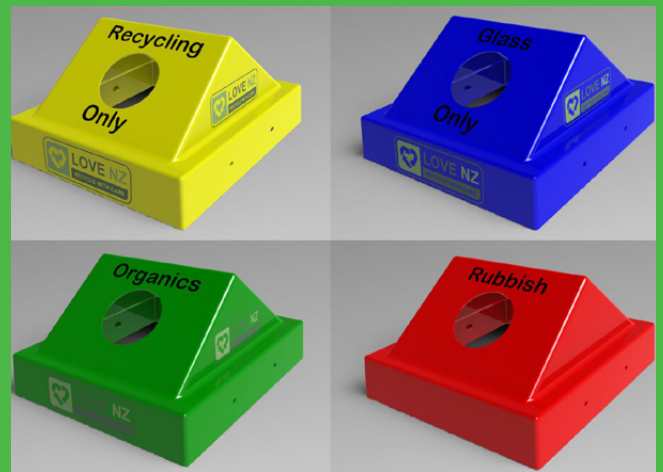
Internal recycling/waste units selected for Victoria University by OCS. 2 x 60l bins as standard, but can be customised to different sizes and number of receptacles.

Features are: high quality stainless steel finish units and decals; internal metal bin; front hinged doors for easy access; adjustable feet or castor wheels.

*Used : Victoria University*

SUPPLIER : OCS  
www.ocs.co.nz





## Recycling station

Aluminium and/or powder coated housing which holds two (or three) 240 litre wheelie bins. Wheels can be fitted to the framework for ease of use at events.

*Used : Westpac Stadium, Wellington; & Ashburton*

SUPPLIER : Prolog  
[www.prolog.net.nz](http://www.prolog.net.nz)

## Event bins/internal bins

Love NZ commissioned the design of recycling bin lids which are attached to standard 240 litre bins for use at events.

The design features a clip mechanism to the wheelie bin. The weight per bin lid is 3kg. The bin can be accessed from either side. The bin lids are stackable and shipped in units of 10.

SUPPLIER : Mouldings Unlimited  
[www.resourcerecovery.co.nz](http://www.resourcerecovery.co.nz)

## Interior bins

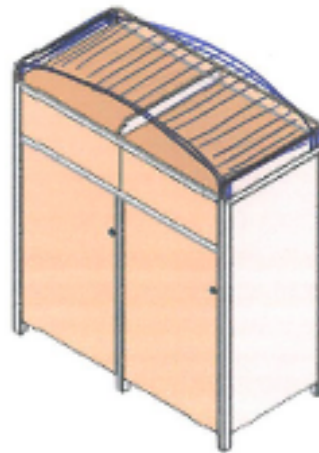
Whilst the initial focus for Love NZ was on street furniture for towns, increasingly organisations are looking for recycling bins for reception areas, restaurants and food courts and 'back of house' solutions for offices, shops etc.

Whilst these interior bins do not have to withstand external weather conditions, businesses want them to 'fit in' with their corporate look at a reasonable cost.

There are a number of Love NZ recycling bin/waste bin combinations which have been utilised in restaurants.

There is a choice of three recycling units combined; a recycling and waste combined unit and a dual recycling bin. The top picture (right) is the dual bin. The bins are dual recycling and general waste bins—as the bins are required to look like a complete unit not like individual bins and reduce contamination by clearly identifying each bin. The bin stations have a wood veneer and tray return.

The design for the restaurant booth was selected by NZ Ski to be robust enough and of sufficient volume to meet the needs of ski community.



SUPPLIER : AE Tilley  
[www.aetilley.co.nz](http://www.aetilley.co.nz)



▲ NZ Ski, Coronet Peak





## Christchurch airport

Recycling unit designed for Christchurch Airport

1250x500x700 high - Split into 3 compartments:

500x500

250x500

500x500

Internal plastic liner bins in each compartment.

SUPPLIER : Bishop Interiors  
[www.bishopinteriors.co.nz](http://www.bishopinteriors.co.nz)



## Transit recycle station

The Transit recycle station is a streamlined unit that will encourage the proper disposal of litter everywhere. Inside are two 60 litre bin liners to provide a total capacity of 120 litres. Recyclable polyethylene is used in construction of the transit recycle station, which is available in a wide range of colours. It can be personalised for signage of choice to your design specifications.

SUPPLIER : Metal Art  
[www.metalart.co.nz](http://www.metalart.co.nz)



## Pioneer's Ecobin 100

Pioneer's Ecobin 100 range is available with a selection of different lids and labels and offers the opportunity to create recycling points in single or multiple indoor locations. An eye-catching labeled wall-board is available to mount above if required. Designed to make it easy for your staff or students to reduce waste going to landfill. Manufactured in New Zealand in a heavy duty polyethylene plastic, the bin uses a standard 80 litre bin liner. Suitable for any office environment, hospitals, schools and universities, shopping malls and airports.

**SUPPLIER :** Pioneer Waste and Recycling Equipment  
[www.pioneergroup.co.nz](http://www.pioneergroup.co.nz)



## Back of house options



### Agpac

Urba Series waste containers are designed to segregate different waste streams at source. Manufactured in Italy and made from recyclable PP or PE, they are stylish, ergonomically designed, safe and easy to use. The Urba Series comprises a full range of containers to suit all waste streams, ranging from 10 litre kitchen caddies to the unique 40 litre Urba Plus stackable tower.

*Used : Kaikoura Council offices*

**SUPPLIER :** Agpac  
[www.urbaplus.co.nz](http://www.urbaplus.co.nz)



### Mouldings unlimited

A new concept designed for use in hotel rooms, offices and classrooms. Manufactured in recycled cardboard with a plastic coating on the inside with optional internal plastic tray for spill containment available. Can be branded for material separation: glass, paper, plastics, cans etc.

Flat packed with easy assembly instructions

3 size options

250mm W x 250mm D x 300mm H - minimum order 500 units.

250mm W x 250mm D x 600mm H

300mm W x 300mm D x 760mm H

Lid is 265mm x 265mm x 50mm H



► Plastic moulded enclosures for wheelie bins

**SUPPLIER :** Mouldings Unlimited  
[www.resourcerecovery.co.nz](http://www.resourcerecovery.co.nz)

## Glass recycling options - promoted by the Glass Packaging Forum

*The best way to collect glass is by encouraging people to separate the glass bottles by colour.*

*The Glass Packaging Forum working with its Love NZ partners has commissioned glass bottle banks for use at hospitality venues, campsites and resource recovery sites etc around the country.*



### Fibreglass mobile glass bintainer

These bintainers are suitable for use at events because of their light weight and ability to be easily relocated to venues that require temporary facilities. However we are also finding that these are preferred as permanent bottle banks.

*Used : Horse of the Year show, Hastings*

SUPPLIER : Tru-Tech Fibreglass Industries Ltd  
[www.tru-tech.co.nz](http://www.tru-tech.co.nz)



## Fibreglass glass bottle bank

These bottle banks have three x 240 litre wheelie bins inside surround, for brown, green and clear glass to be sorted by public when depositing bottles into marked holes. Glass bottle banks installed in permanent locations have taken only a short period of time for the public to deposit bottles on a regular basis.

**SUPPLIER :** McFarlane's Fibreglass Engineering  
03 471 0623



## Glass pods

Dunedin City Council introduced glass pods at its resource recovery facility which are yielding significant returns of glass.





Glass Packaging Forum Inc

PO Box 58110  
Botany  
Auckland 2163

PHONE : 09 271 0073

EMAIL : donna.glassforum@xtra.co.nz

**[www.lovenz.org.nz](http://www.lovenz.org.nz)**

