

FRP - cost assumptions		Cost basis	High	Medium-high	Costs (£) Average	Medium-low	Low	Source:
Recycling bin assumptions								
New bins/ initial refurb, litre capacity:								
	240	£ per bin	21	21	21	21	21	Plastic bins assumes: median supplier, half load, bins made from recycled content, coloured lid and black body, solid axels, ESPO price list
	360	£ per bin	34	34	34	34	34	Plastic bins assumes: median supplier, half load, bins made from recycled content, coloured lid and black body, solid axels, ESPO price list
	660	£ per bin	255	255	255	69	69	Steel bins ssumes: median supplier, 41+ units ordered, powder coated, reverse and coloured lid, push lock, ESPO price list
	1100	£ per bin	275	275	275	69	69	Steel bins ssumes: median supplier, 41+ units ordered, powder coated, reverse and coloured lid, push lock, ESPO price list
	1280	£ per bin	337	337	337	69	69	Steel bins ssumes: median supplier, 41+ units ordered, powder coated, reverse and coloured lid, push lock, ESPO price list
Ongoing bin refurb/replacement bins costs								
	240	£ per bin	21	21	21	21	21	Assume bins replaced, so cost as above
	360	£ per bin	34	34	34	34	34	Assume bins replaced, so cost as above
	660	£ per bin	69	69	69	69	69	ESPO bin costs - cost of refurb for median supplier
	1100	£ per bin	69	69	69	69	69	ESPO bin costs - cost of refurb for median supplier
	1280	£ per bin	69	69	69	69	69	ESPO bin costs - cost of refurb for median supplier
Recycling bin reverse lids		£ per bin	20	20	20	20	20	ESPO bin costs - cost of reverse lid (applicable for 1,100 / 1,280 litres only)
Recycling bin rental rates								
	240	£/bin/year	22	22	22	22	22	Assumed as per borough provided estimates.
	360	£/bin/year	33	33	33	33	33	Assumed as per borough provided estimates.
	660	£/bin/year	60	60	60	60	60	Assumed as per borough provided estimates.
	1100	£/bin/year	100	100	100	100	100	Assumed as per borough provided estimates.
	1280	£/bin/year	116	116	116	116	116	Assumed as per borough provided estimates.
Regular cleansing								
Bin, bin rooms and signage (1hr assumed)		£ per site/clean	13.9	13.9	13.9	13.9	13.9	Based on £11.70 starter salary/hour + employer's NIC and assumed 5% pension contribution. High = +25%, low=-25%
Weeks per clean		weeks	1	1	1	1	1	
General improvements to bin areas								
Painting		£ per bin store	500	300	0	0	0	High and high-medium assumes treatment required for large and small areas respectively. Average, medium-low and low assume no additional painting required. Estimates based on material + labour costs sourced from online quotations.
Lighting		£ per bin store	238	122	0	0	0	High = two LED lights @ £100 each + half a day installation @ London living wage. Medium-high = one LED lights @ £100 each + 2 hours installation @ London living wage. Average, medium-low and low assume no lighting improvements required. Estimates based on material + labour costs sourced from online quotations.
Initial deep clean		£ per bin store	75	56	38	19	0	High = full day @ London living wage, average = half day @ London living wage, low = zero cost.
Bin store signage - manufacture		£ per bin store	5	5	5	5	5	Recycling in flats toolkit 2020 - based on 297mm x 180mm
Bin store signage - design (one-off)		£ per council	20	20	20	20	20	Recycling in flats toolkit 2020 - based on 297mm x 180mm
Recycling bin signage								
Recycling bin sticker - manufacture cost		£ per bin	6.5	6.5	6.5	6.5	6.5	ESPO Straight price for vinyl stickers as part of framework
Recycling bin sticker - design cost (one-off)		£ per council	60	60	60	60	60	Resource London - Recycling in flats toolkit 2020
Recycling bin aperture sticker - manufacture cost		£ per bin	3	3	3	3	3	Resource London - Recycling in flats toolkit 2020 - based on 2 per bin at £1.50ea
Recycling bin aperture sticker - design cost (one-off)		£ per council	20	20	20	20	20	Resource London - Recycling in flats toolkit 2020
Bin store signage - manufacture cost		£ per bin store	75	75	75	75	75	Resource London - Recycling in flats toolkit 2020. Blended average of post and wall signage with additional £50 assumed for signage fittings
Bin store sign - design cost (one off)		£ per council	60	60	60	60	60	Resource London - Recycling in flats toolkit 2020
Rubbish bin signage								
Rubbish bin stickers - manufacture cost		£ per bin	5	5	5	5	5	Indicative print cost; FRP toolkit signage and communications guidance (https://resource.london.org/wp-content/uploads/2019/02/flats-toolkit.pdf)
Rubbish bin sticker - design cost (one-off)		£ per council	60	60	60	60	60	Resource London - Recycling in flats toolkit 2020
Bin store signage - manufacture cost		£ per bin store	75	75	75	75	75	Resource London - Recycling in flats toolkit 2020. Blended average of post and wall signage with additional £50 assumed for signage fittings

Bin store sign - design cost (one off)	£ per council	60	60	60	60	60	Resource London - Recycling in flats toolkit 2020
Chute signage - manufacture cost	per chute	4	4	4	4	4	Resource London - Recycling in flats toolkit 2020. Indicative cost for 230mm x 230mm sign
Chute sign - design cost (one off)	£ per council	20	20	20	20	20	Resource London - Recycling in flats toolkit 2020. Indicative cost for 230mm x 230mm sign

Noticeboard posters

Noticeboard A3	£ per block	50.0	50.0	50.0	50.0	50.0	Assumption, based on web-search
Recycling / bulky items poster (both A4)	£ per block	0.3	0.3	0.3	0.3	0.3	WRAP costs of communication (3.2 "Posters"). Based on 100x A4 quantity
Yearly leaflet - manufacture cost	£ per hh	0.4	0.4	0.4	0.4	0.4	WRAP estimate
Yearly leaflet - design cost (yearly)	£ per council	250.0	250.0	250.0	250.0	250.0	WRAP estimate

Additional collection costs

Recycling collections	per hh/yr	16.3	16.3	16.3	16.3	16.3	WRAP estimate, based on vehicle operating costs and estimated sites per day
Rubbish collections	per hh/yr	16.3	16.3	16.3	16.3	16.3	WRAP estimate, based on vehicle operating costs and estimated sites per day

Project management

Conduct site assessment	days per estate	0.75	0.63	0.50	0.38	0.25	Resource London estimate for average. Assume high cost takes 50% more time, low cost takes 50% less time to reflect harder / easier to treat
Stakeholder engagement	days per estate	0.75	0.63	0.50	0.38	0.25	Resource London estimate for average. Assume high cost takes 50% more time, low cost takes 50% less time to reflect harder / easier to treat
Produce improvement plan	days per estate	0.30	0.25	0.20	0.15	0.10	Resource London estimate for average. Assume high cost takes 50% more time, low cost takes 50% less time to reflect harder / easier to treat
Produce implementation plan	days per estate	0.30	0.25	0.20	0.15	0.10	Resource London estimate for average. Assume high cost takes 50% more time, low cost takes 50% less time to reflect harder / easier to treat
Preparing for delivery (procurement etc.)	days per estate	0.75	0.63	0.50	0.38	0.25	Resource London estimate for average. Assume high cost takes 50% more time, low cost takes 50% less time to reflect harder / easier to treat
Roll out of FRP (officer time to oversee)	days per estate	0.75	0.63	0.50	0.38	0.25	Resource London estimate for average. Assume high cost takes 50% more time, low cost takes 50% less time to reflect harder / easier to treat
Installation of FRP measures	days per estate	1.00	0.75	0.50	0.38	0.25	Resource London estimate for average. Assume high cost takes 50% more time, low cost takes 50% less time to reflect harder / easier to treat
Recycling officer daily salary	£/day	114	114	114	114	114	Based on upper range for recycling officer wage of £25k and 220 days worked per year.
Cost of installation	£/day	500	500	500	500	500	Approximation based on experience from Peabody Pilot. Assumes two installers employed in parallel.

Other on-going costs

Monthly officer visit	£ per site/month	17	16	14	12	10	Based on £11.70 starter salary/hour + employer's NIC and assumed 5% pension contribution. High = +25%, low=-25%
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