

| FRP cost assumptions | | Cost basis | High | Medium high | 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 |

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|--|---------------|----|----|----|----|----|---|
| 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

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|-----------------------|------------------|----|----|----|----|----|---|
| 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% |
|-----------------------|------------------|----|----|----|----|----|---|