

Citybac 120l „Modell B“

Bin description



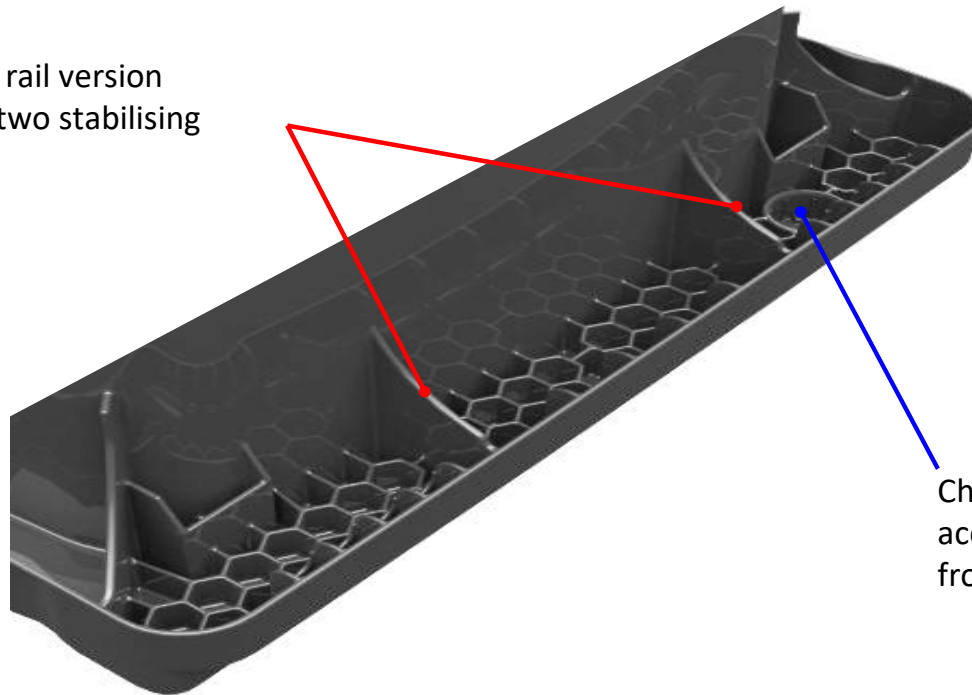
January 24th, 2023

SULO®

IN GENERAL

- The Citybac 120l is certified according to DIN EN 840 and RAL-GZ 951/1
- Chip nest as standard according to RAL-GZ 951/1 in the front receptacle
- Double step bar (DIN step comb) with two stabilising centring ribs and optimised connection
- Bin tightness due to circumferential water edge on the hull with water run-on slope
- Bin injection and optimised design specially developed for stability and strength
- Undulating side handle
- Continuous wave-shaped handle with 3-fold body connection
- Ergonomic handle tube diameter of 27 - 28mm
- Sixfold axle bearing
- Generously integrated footstep in the wheel arch area for easier handling of the bin
- Large marking or decoration areas
- Simplified assembly and disassembly of the lids or hinge pins
- Optionally available with two different lid designs (bow handle lid or handle strip lid)
- Noise damping (lid slam, lid overturn and noise-damped wheels)
- Optimised for transport and storage of bin stacks
- Sustainable bin through the use of recycled material and other solutions such as optimised stacking, etc.
- Also available as resource-saving "Blue Angel" bin, certified according to RAL-UZ 30a with grey body and coloured lid
- Various lock designs can be fitted

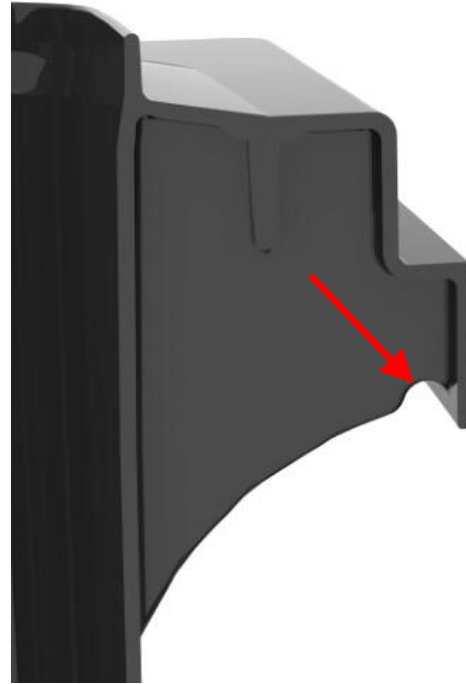
The double step rail version (DIN comb) has two stabilising centring ribs.



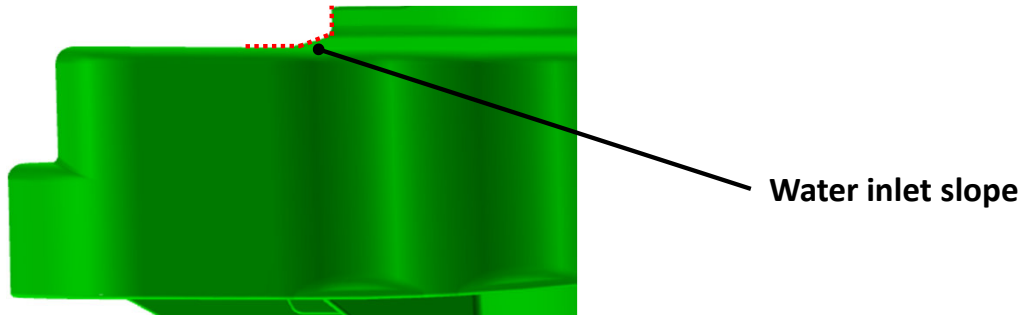
Chip nest as standard according to RAL in the front receptacle.

- Tried and tested honeycomb ribbing in the pouring comb for stability and strength in the area of the contact surface for all standard-compliant pouring systems on the market.

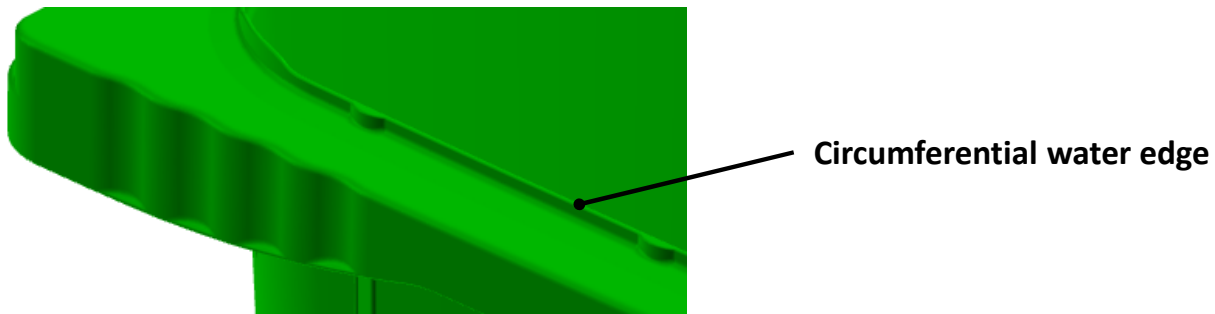
OPTIMISED CONNECTION OF THE CENTRING RIBS



- The optimised connection of the centring ribs to the step comb particularly increases the flexibility in this area, thus reducing the risk of the pouring rim tearing in the event of over-expansion during the emptying process.

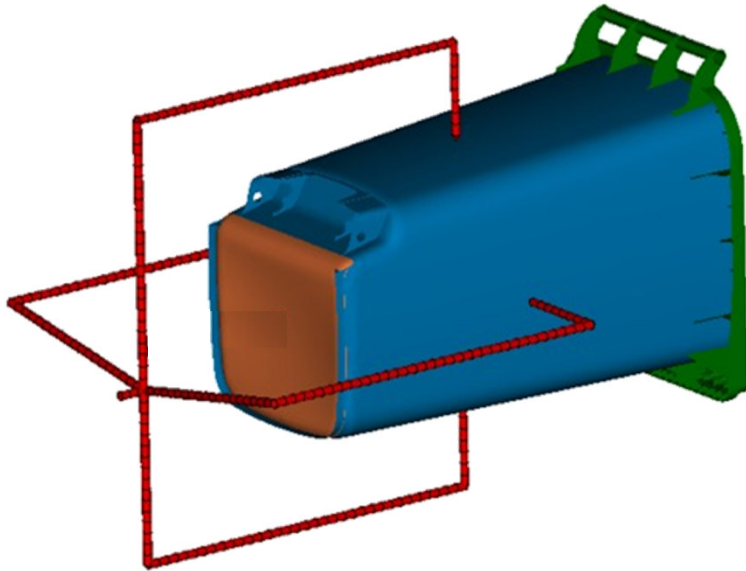


- Circumferential water run-up slope in front of the water edge on the body, which prevents water from accumulating and thus the cover from freezing.



- Circumferential water edge prevents water from running into the bin.

Multi - sequential - injection



In order to be able to realise this generation of bodies and at the same time increase the quality, the multi-sequential injection process was used here.

Advantage: Multi - sequential - injection method with 4 injection points.

1. Stress-free and thus gentle injection of the plastic.
2. Optimised orientation of the macromolecules.

There is an injection point in the centre of each of the four side surfaces (see illustration).



Newly developed bin generation with new design.

With the help of FEM software, strength calculations have been carried out in which this design emerged as the best solution from a wide variety of designs.

Visually easily recognisable by the beading contour (contour projections) on all four sides of the bin, which start from the base of the bin and then taper off to zero towards the centre of the bin, thus providing the necessary stability and strength.

LATERAL GRIP OPTION



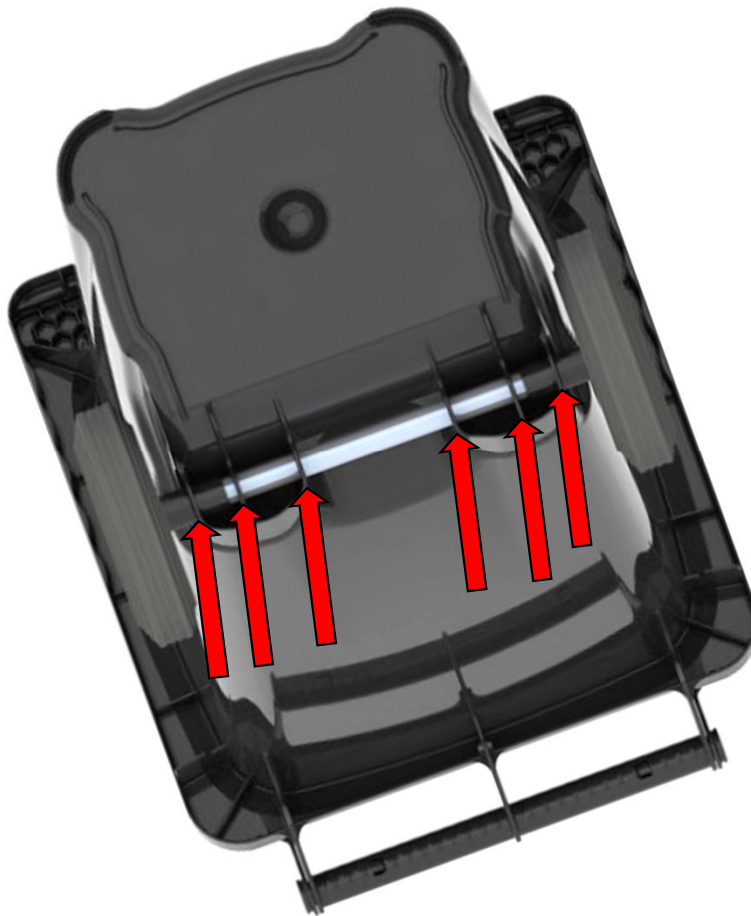
- The bins are predominantly positioned with the handle tube facing the wall, so that it is then not possible to move the bin the first metre over the handle tube. In order to make it easier for the user to pull the bin out of this position, wave-shaped grip options on the upper, front side edge of the bin were taken into account in its development.

HANDLE TUBE



- Two extra grip areas of equal size are attached to the body in the form of a continuous, ergonomically well-shaped grip tube in wave geometry via a triple body connection. The grip tube with a diameter of 27 - 28mm, lies comfortably in the hands and thus even full bins can be manoeuvred safely.

OPTIMISED AXLE BEARING



Due to the sixfold graduated axle bearing in the diameters, this bin has increased flexibility and stability for robust everyday use. The inner four rib bearing points are actively supporting and the outer ribs (left and right) are passively supporting.

CHASSIS AND FOOTSTEP

- Generously integrated foot step for easier handling of the bin.
- By stepping on the axle, easy and convenient tipping of filled bins is possible.

Footstep



- Only wheels with a diameter of 200mm are possible on this bin.
- As standard, this bin has a galvanised tube axle, but a solid axle is also possible as an option.

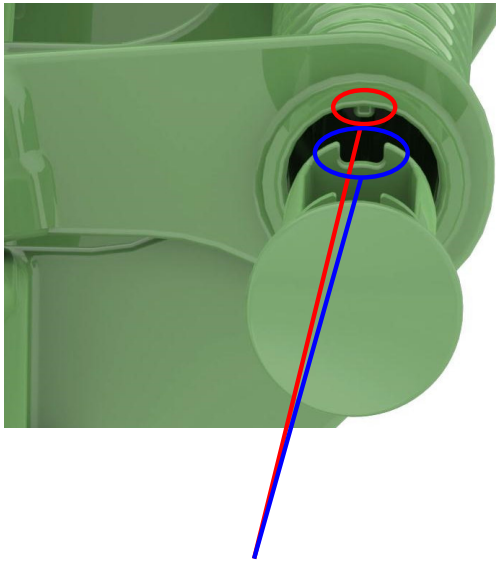
DECORATION AREAS



All around large areas for decorating through:

- Hot stamping
- Screen printing
- Labelling

SIMPLIFIED MOUNTING OF THE LID

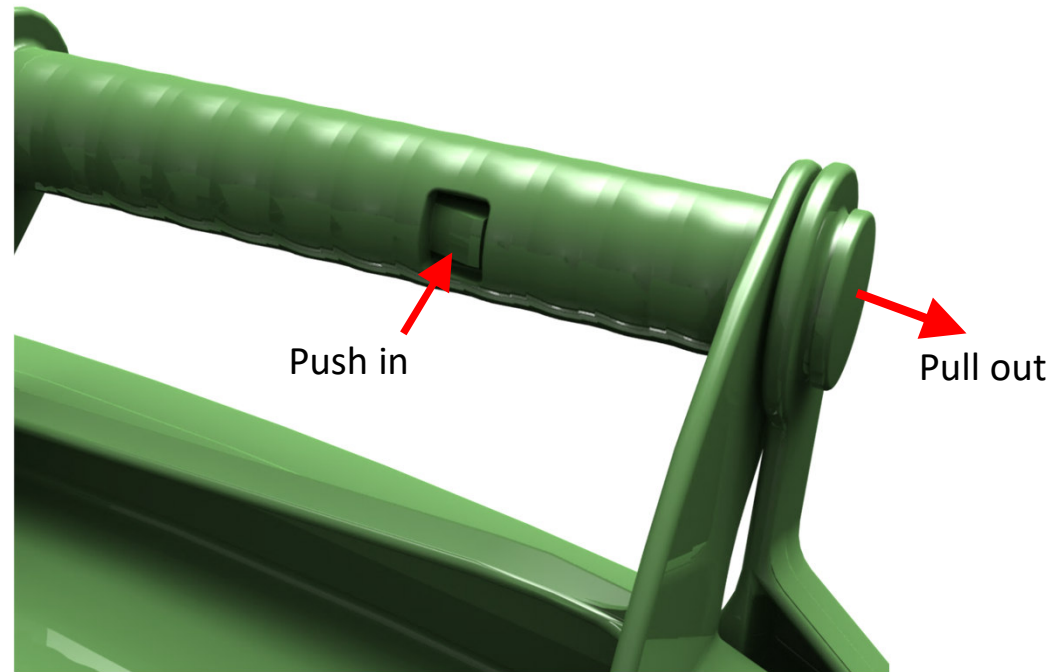


- The innovative anti-twist device ensures that the hinge pin can really only be inserted and locked in the correct position.



- The hinge bolts have latching hooks that enable easy assembly without tools. The hinge pin is pressed in by hand until it locks into place.

SIMPLIFIED DISASSEMBLY OF THE LID

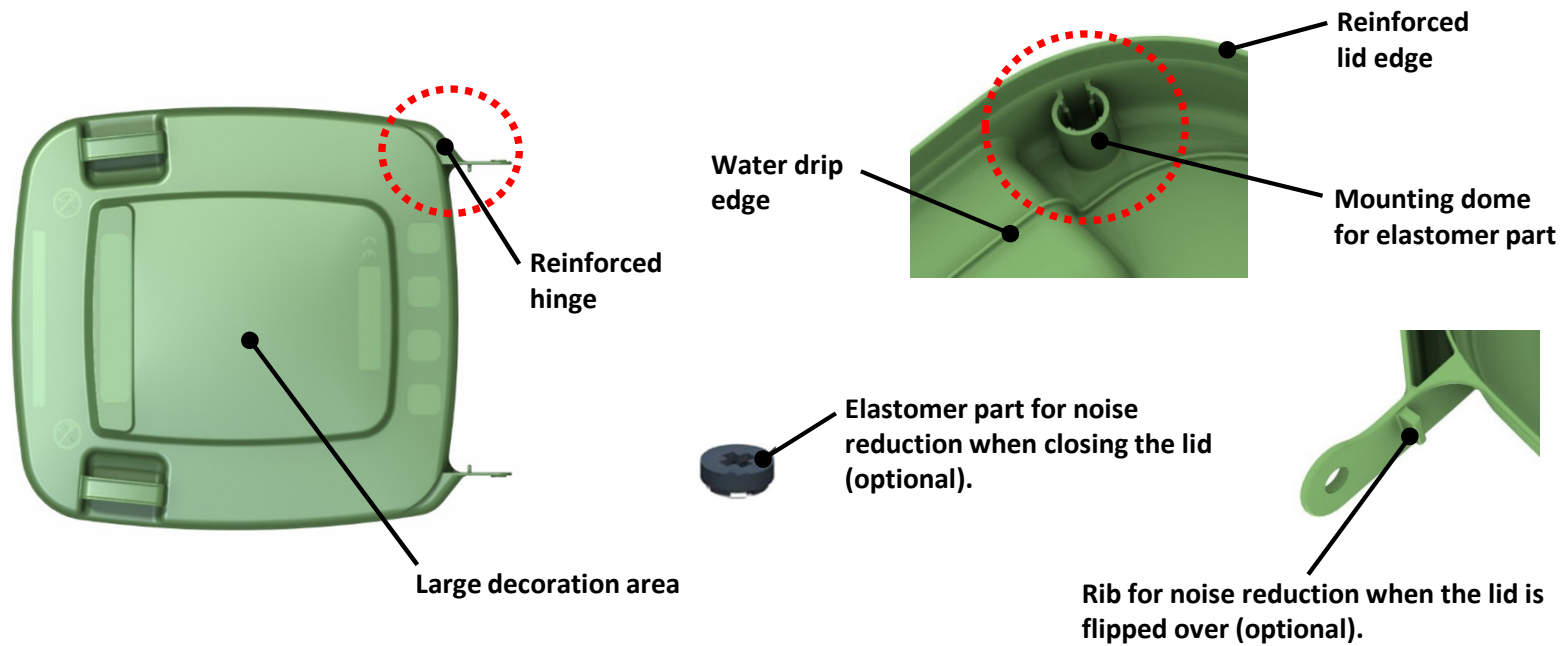


- To disassemble the lids, the hinge pins can be easily removed with a tool such as a screwdriver. The hinge pins can be reused.

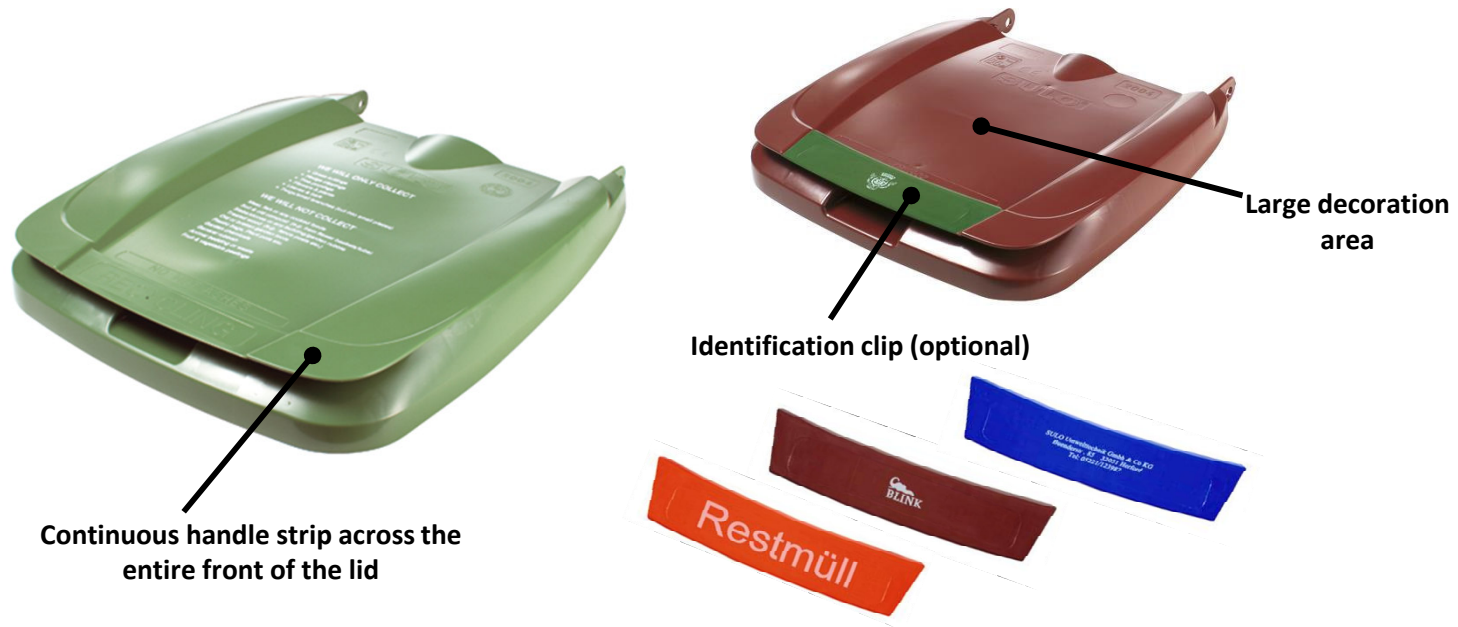
LID VARIANTS "STANDARD LID" AND "CLIP LID"

- Both lid versions have a large free area for labelling/decoration, e.g. for stickers, screen printing or hot stamping.
- The lids have a reinforced stable 2-fold lid hinge.
- A circumferential water drip edge is located on the underside of the lid.
- These lids are always equipped with domes to accommodate elastomer parts and can therefore also be retrofitted with surcharge damping.
- If these lids are equipped or retrofitted with the surcharge damping (screwed-in elastomer parts), then they also automatically have lid ventilation.
- Optimised for accessories, e.g. throw-ins, locks, etc.

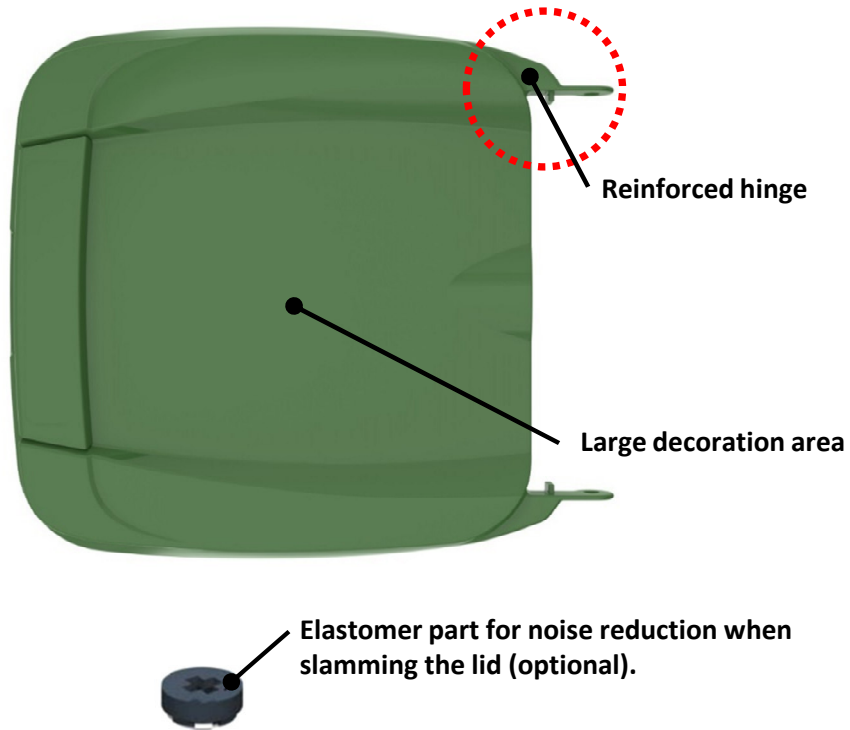
Standard Lid



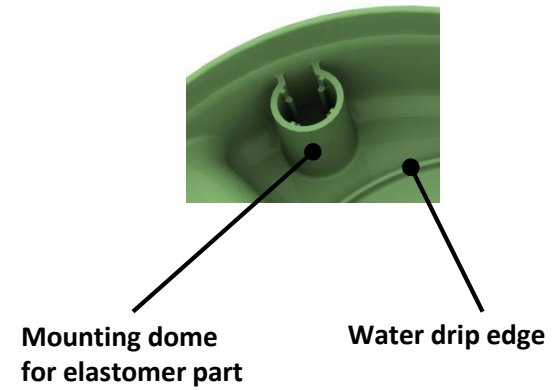
- The lids each have two reach-through handles (bow handles).
- Have a reinforced lid edge
- Optional noise reduction possible



- These lids have an ergonomic handle that goes across the entire front of the lid.
- These lids can be equipped or retrofitted with a replaceable identification clip for fraction identification.
- These identification clips can also be provided with an optional marking (e.g. embossing insert or hot stamping).

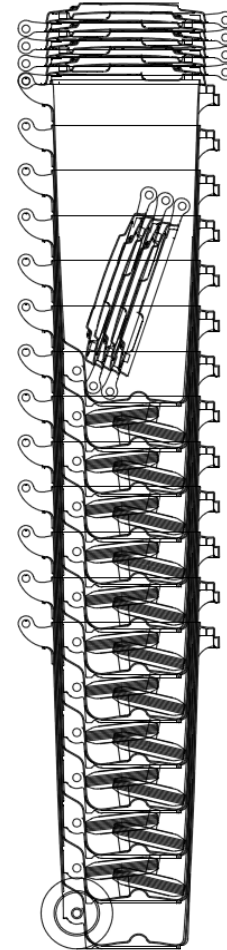


- Optional noise reduction possible



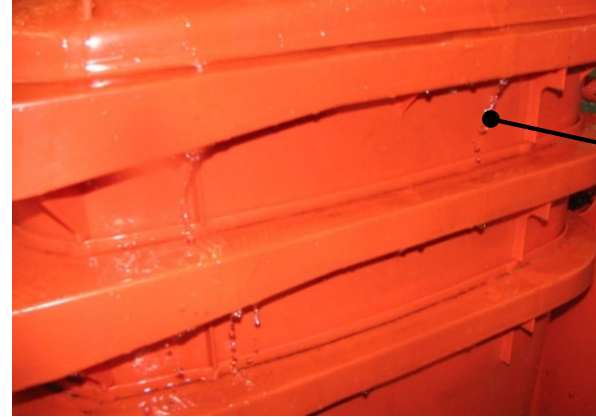
STACKING (OPTIMISED TRANSPORT)

- The transport (stacking, etc.) has been optimised so that the transport space is used up to 20% better compared to the previous products. This is a sustainable product solution that significantly reduces CO2 emissions.
- Through an optimised design, the stacking distances of the individual hulls in the stack will be reduced so that more bins fit into a stack with approximately the same stack weight and stack height.
- This means that the transport space on trailers and containers can be used more optimally.



OPTIMISED RAINWATER DRAINAGE FOR STORAGE OF STACKED BINS

The top bin floats up.
(Photo: Stack at SULO)

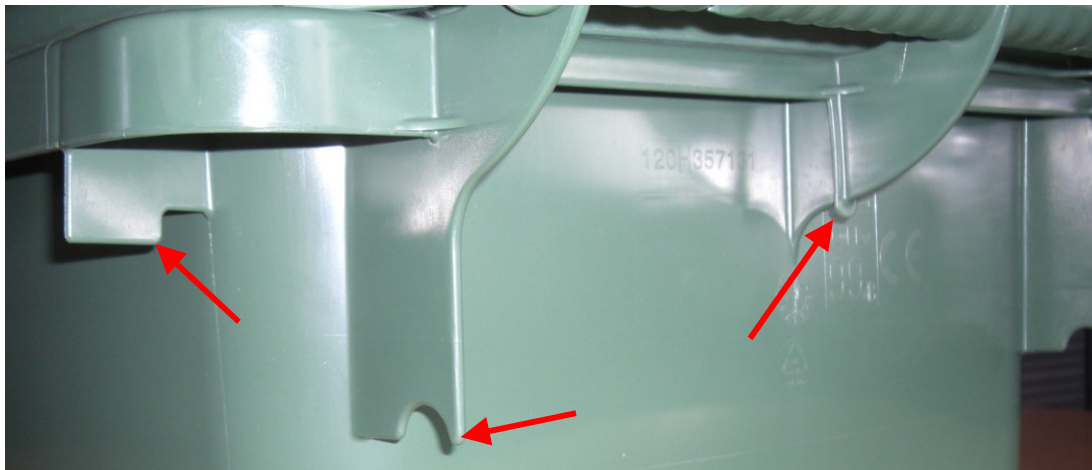


The rainwater runs down the side stacking ribs into the lower bin.
(Photo: Lab Test)

Here are example photos of bins without an optimised water drainage system

- By leaving stacked bins outdoors (without a roof) for a longer period of time, rainwater can collect in the bodies. Most of the water collects in the second body from the top, which then causes the body to float up.
- Due to the entering water and the resulting higher weight, the lower bodies are deformed or damaged.
- This additional weight in the upper area increases the stack's susceptibility to tipping. If the stack falls over, it can cause damage to the bins and even accidents or injuries to people.
- Damage occurs especially in winter

OPTIMISED RAINWATER DRAINAGE FOR STORAGE OF STACKED BINS



- In order to reduce the penetration of rainwater via the rib connections into the bodies during storage in the stack, drip edges and rainwater guide ribs were attached all around these ribs, which then ensure that rainwater drips off.
- Rain tests under laboratory conditions have shown that these measures prevent or reduce the penetration of rainwater in the stack.