








SCHÄFER

SSI SCHÄFER

Product Overview

Two wheeled bins / GMT bins

Index

safe construction

- strong 4-point hinges with specially secured hinge pins

many bin colours

- special colours also on request
- exchangeable coloured lids

convenient handling

- strong wheels with reinforced, robust axle and smooth running wheels

options for noise reduction

- e.g. to prevent lid hitting the back of the bin body

GMT

GMT 60 to 360 litres

The classic! SSI SCHÄFER bins have been continuously in use in many municipalities and industrial premises for more than 30 years. The two-wheeled bins (GMT) are light, robust and extremely sturdy. The product quality is subject to constant checks by independent neutral institutes. Easy to handle and move, effective noise reduction and high capacity – these are essential properties for meeting the requirements of efficient refuse collection.

Design

The tapered body shape has stabilising ribs at the upper rim, the comb lifting bar is reinforced. Lid handles are slanted for easy handling. Reliable hinges are additionally secured with hinge pins. Reinforced base with patented axle construction. Smooth running wheels. Equipped for fitting of data chips for identification and weighing.

Bins in standard colours

RAL 7016	RAL 8025	RAL 5015	RAL F-7/W1	RAL 1021	RAL 3020
anthracite grey	pale brown	sky blue	green	rape yellow	traffic red
RAL 9003	RAL 7000	RAL 6005	RAL 3005	RAL 6009	colours are subject to deviation
signal white	squirrel grey	moss green	wine red	fir green	

Advantages

long lasting, robust containers with large capacity and, at the same time, low empty weight

continual quality control through an independent testing institute

produced in accordance with DIN EN 840-1

standard containers conform to the noise protection regulation according to EU Directive 2000/14

additional noise reduction options available
see page 32

produced to be compatible with comb lifts conforming to EN-Standard

individual lid and body printing available
see page 46

prepared for the fitting of RFID chips for identification and weighing
see page 88

optional locking systems available
see page 48

Technical Data

60 l 80 l 120 l 140 l 240 l 360 l

GMT	60 l	80 l	120 l	140 l	240 l	360 l
Width mm (W)	448 ±5	448 ±5	505 max	505 max	580 ±5	665 max
Depth mm (D)	530 max	530 max	555 max	555 max	740 max	880 max
Height mm (H)	975 max	975 max	1,005 max	1,100 max	1,100 max	1,115 max
Nominal volume l	60+10/0	80+18/-5	120+8/-6	140+6/-12	240+15/-5	360+20/-40
Payload kg	40	40	48	56	96	144
Wheel-ø mm	200	200	200	200	200	200/300

all dimensions are nominal in accordance with DIN EN 840

high strength

ensured by the additional strengthening ribs on the top of the front lip of the container

chip nest

identification systems

chip nest on the underside of the front lip of the container for the installation of a data carrier

individual printing

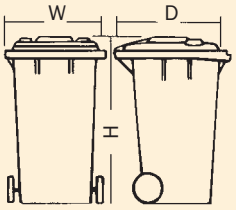
body printing lid printing

individual hot die stamp printing available according to requirement *see page 46*

security systems

example of a gravity lock

security systems against misuse can also be retrospectively fitted
see also page 48



robust construction

▲ increased strength due to the new design at the front and back of the bin as a result of stress analysis technology

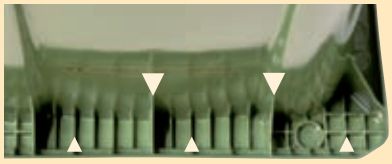
strengthening flange on the base of the bin

▼ reinforced wheel housing and wheel support

▲ improved ground stability due to the new design of the base

reinforced lifting comb

▼ reinforced lifting comb due to the increased number of strengthening ribs



▲ self-locating guide on the lifting comb bar for quick positioning of the comb lifting mechanism, particularly when used with side loading devices

GMT eXtra 240 litres

The continuation, in every respect, of a successful story. Through the use of stress analysis techniques, this new GMT container has been strengthened by the addition of vertical reinforcement at the front and rear of the container. But that's not all! The lifting comb has been reinforced by increasing the number of supporting ribs. Self-locating guides on the lifting bar assist quick location of the lifting device, particularly when used with new loading systems. Extra reinforcement of the wheel housing and wheel support gives increased safety when moving a heavily loaded bin.

The well-known benefits of the long established first generation of GMT wheeled bins have been retained and enhanced by the addition of the new technical features. Conformity to tested quality standards is certified by recognised quality marks.

Noise reduction in accordance with EU guidelines 2000/14, dimensions in accordance with EN 840-1 and the patented four point hinge mountings still form part of the newly developed GMT eXtra. With its new innovative and strengthened shape this new generation of bins conforms to the new and faster collection systems.

GMT eXtra	Width mm	Depth mm	Height mm	Nominal volume l	Payload kg	Wheel-ø mm
240 l	580 ±5	740 max	1,100 max	240 +15/-5	96	200

all dimensions are nominal in accordance with DIN EN 840

GMT eXtra

The innovative new bin generation

Base contours / standing rim
The standing rim on the base was moved slightly inwards (offset contours) in order to use it as a shock absorbing component in the hard practical use of the bin. The effecting forces are not directly transmitted to the lateral sides but are at first absorbed by the base of the bin.

Stress analysed side walls
Increased strength of the front and back walls through profiled walls for the extra high demands caused by the operation of side loader equipment.

Reinforced comb lifting bar
The dynamic forces which result from the lifting and emptying of the bin are effectively absorbed by the increased number of strengthening ribs, as well as the increased size of the comb receiver.

Advantages

trouble-free use

long service life

excellent equipment for the latest emptying devices

easy bin handling

many bin colours, special colours available on request
see page 28

additional noise-reducing options available
see page 32

individual embossing of the lid and body possible
see page 46

prepared for the fitting of chips for identification and weighing systems
see page 90

many optional locking systems available
see page 48

Emptying by side loaders

Modern collection of waste and recyclable material must, above all, fulfil one thing: it has to be economic. That is why more and more new lifting technologies are used which provide a quicker and more effective operation.
The SSI SCHÄFER reaction to this new situation is a new type of bin which offers the maximum service life through its robust construction. It is the new GMT eXtra 240 litres.

The bin is a further development of the million times tried and tested SSI SCHÄFER wheeled refuse bin (GMT) and it is more suitable for fast emptying systems.

Noise reduction with GMT refuse bins

The quiet way – to a clean environment

The new European noise protection decree has been in force since the year 2000. The emptying and the filling of non noise-reduced refuse containers is only permitted between the hours of 7.00 and 20.00, unless you benefit from the advantages of SSI SCHÄFER's **noise reduced** 2-wheeled bins.

These have, for a long time, exceeded the emission standards by **an average of 20%**. To illustrate this more clearly, about 100 noise reduced bins generate as much noise as one conventional bin.

For the resident, this means that he can dispose of his waste around the clock.

Noise reduced SSI SCHÄFER bins already meet tomorrow's legal requirements today!

Better than required by the standard – for measured values see www.ssi-schaefer.com

User-friendly, noise-reduced SSI SCHÄFER bins are permitted to be filled around the clock

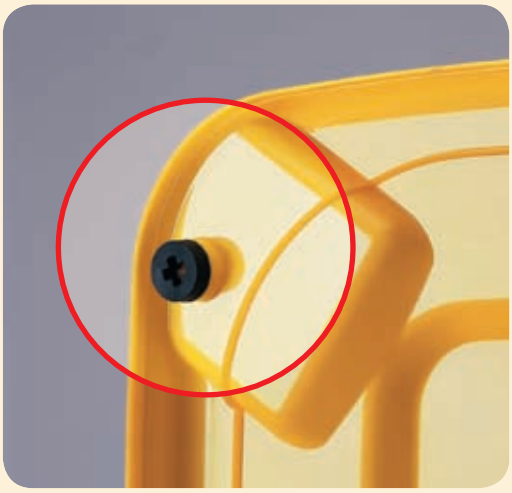
Legal filling and emptying times
without noise reduction
7.00 – 20.00 hrs

With SSI SCHÄFER noise reduced bin systems

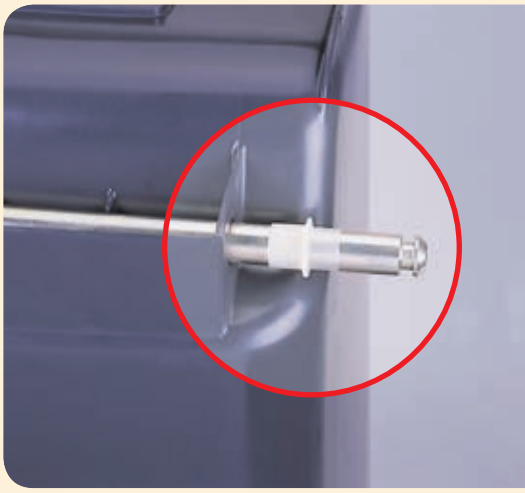
filling is permitted throughout 24 hours

around the clock independent of legal time restrictions!

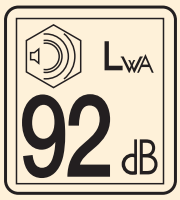
cushioning of the impact by the open lid on the body



cushioning of the lid closure



reduction of wheel related noise

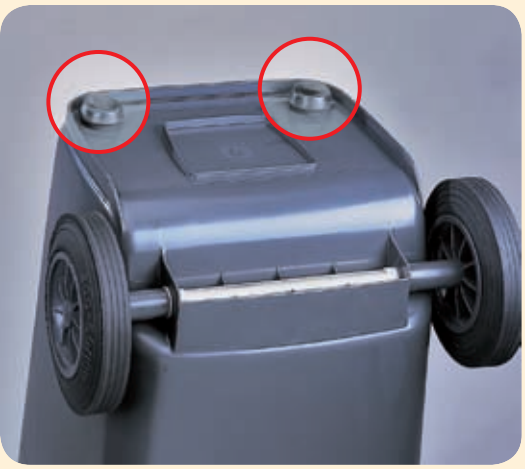


What elements help to reduce the noise?

The biggest noise reduction is achieved by the **cushioning** of the impact of the open lid, because the loud impact of the lid on the back of the bin body is prevented. On the inside of the bin lid **rubber buffers** are fitted, which cushion the banging of the lid when it is shut. Special **bearings muffle wheel** related noise, when the bin is moved.

In addition, on request, two **plugs** can be fitted to the base of the bin, which prevent noise resulting from the bin hitting the ground as it is emptied and returned.

In this way, the whole process of waste disposal generates much less noise, from manoeuvring the bins, to the opening and closing of the lids.



ground impact cushion

closing the lid	opening the lid	wheeling the bin
-19,0 (dBA)	**-40,2** (dBA)	**-13,4** (dBA)

acoustic decrease through noise reduction
(Source: PZT GmbH, Wilhelmshaven)

The natural cycle – compostable waste

Aerobic/anaerobic composting

domestic collection

removal by waste disposal organisation
arrival at treatment plant

aerobic windrow composting

A requirement for the production of good quality compost without contamination is separate collection at source: in the kitchen and in the garden. Two main methods are used for the treatment of the collected materials; on the one hand is aerobic composting and on the other hand is anaerobic processing in fermentation plants for the production of methane gas, energy and compost.

For both methods it is important that the raw material is cleanly segregated from the residual waste – without heavy metals which come, for example, from batteries. In 2004, more than 5 million tons of compostable waste were collected separately in Germany, processed into energy and compost and fed back into the natural cycle as a high-quality soil improver. This also partly compensated for the annual natural erosion.

Compostable waste which goes to landfill without treatment emits methane into the air for up to 100 years and also contaminates the ground water.

In all countries of the world a major contribution can be made to the reduction of the amount of waste by composting the separately collected “green“ waste from households. The environment will be relieved as well, by the reduction of methane and the avoidance of contaminated leachate. In this way we actively contribute to the sustainable protection of our environment.

“in vessel“ composting

screening

methane plant / production of energy / anaerobic

finished compost

compost spreading – agriculture

thorough ventilation

- the contents are throroughly ventilated by means of the spacer ribs on the inner walls and the numerous small holes in the sides and in the lid

drain grating

- the hinged, foldable grating enables the water content of the compostable material to drain and therefore partially to evaporate

higher payload through improved stability

- the spacer ribs on the inner walls reinforce the total strength of the bin – thus allowing the Compostainer® to take a higher payload

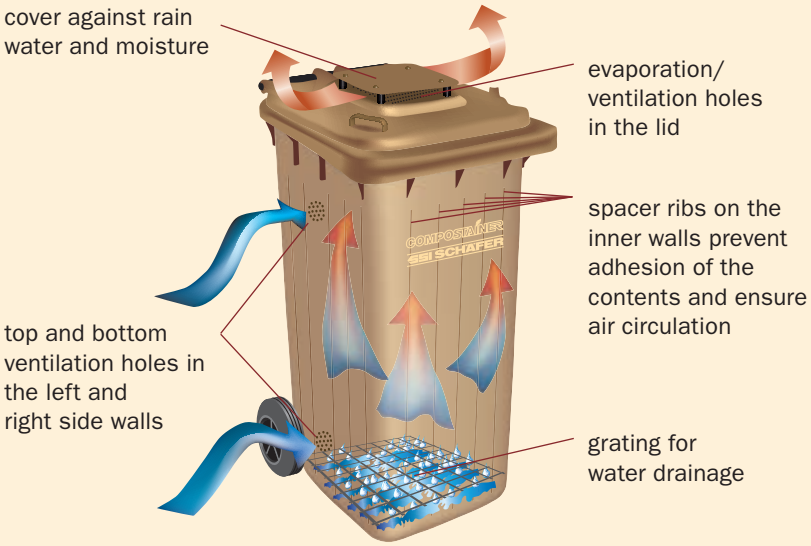
Compostainer®

The thoroughly ventilated bin – Compostainer®

The thorough ventilation provides a high oxygen supply to the contents. This supports the activity of the microorganisms inside the material which are responsible for the aerobic decomposition of the material. Compostable waste, collected by Compostainers® has a pH-value of 7.0 and, therefore, is well preconditioned for the composting process. In this way, decaying processes combined with the development of unpleasant smells are avoided. Because of this intensive ventilation, the weight decreases by 13% through evaporation of moisture in a fortnightly collection cycle (scientifically tested).

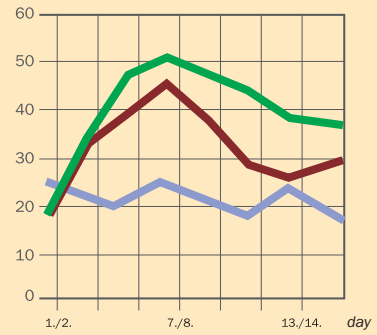
Less water, less weight, less costs!

With a 120 litre Compostainer® an average of 3 litres of water evaporates in a fortnightly collection cycle, 350 bins are emptied into the collection vehicle, equalling a reduction of 1,050 litres per vehicle.
With 3 collection loads per day, this is equivalent to about 3,000 litres of water or 3 tons of weight which do not have to be transported and paid for at the composting plant.



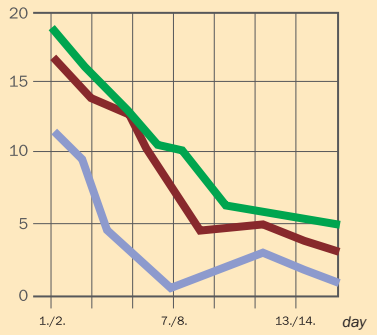
Technical results speak for the Compostainer®

Temperature fluctuation (°C) over days



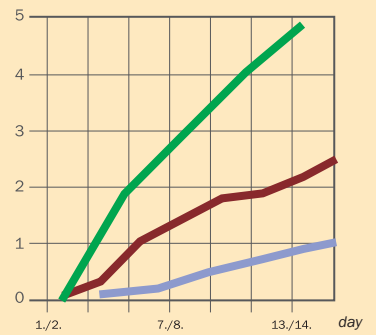
The diagram shows, that the temperatures depend on the intensity of the ventilation; the better the ventilation, the higher the temperature and therefore the activity of the microorganisms responsible for aerobic decomposition resulting in the reduction of unpleasant smells.

Oxygen content (O_2) over days



The oxygen content clearly demonstrates the difference between the various bin types. The pH-value inside the non-ventilated bin is 5.0 and inside the Compostainer® it is over 7.0.

Weight loss (kg) over days



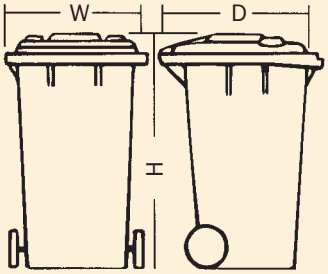
The markedly higher weight loss of 13% in the Compostainer® is a result of the intensive ventilation.

A pre-composting process can only take place in a bin system, which is ventilated to the maximum possible extent. The Compostainer® enables a biologically and ecologically harmless fortnightly bio waste collection. With this bin correctly filled, temperatures of more than 50 °C can be achieved, which make the organic decomposition of the biological waste possible. The aerobic decompostion can result in a considerable loss of weight and a favourable pH-value of 7.6.

Technical data

Compostainer®	**CT 120 l**	**CT 140 l**	**CT 240 l**
Width mm (W)	505 max	505 max	580 ±5
Depth mm (D)	555 max	555 max	740 max
Height mm (H)	1,005 max	1,100 max	1,100 max
Nominal volume l	120 +8/-6	140 +6/-12	240 +15/-5
Payload kg	48	56	96
Wheel-ø mm	200	200	200

all dimensions are nominal in accordance with DIN EN 840



standard colours (special colours on inquiry)

RAL 8025 pale brown

RAL F-7/W1 green

Compostainer®, intensively ventilated

bio-bin with drain grating, no spacer ribs, normal ventilation

non-ventilated bio-bin

Compolux®

Advantages

much less offensive smell

much less bacteria infestation

reduced risk of
infectious diseases

reduced formation of maggots

little allergen dissemination

easy to clean waste containers

optimal compostability of the waste

ideal for use in the public and private waste disposal industry

high quality HDPE material,
resistant to extreme stress,
UV stable, acid and alkaline resistant to a great extent

lasting effectiveness
of the bin

How does the additive work?

The active ingredient is added directly to the plastic granulate during the bin production process and migrates towards the surface of the plastic throughout the life of the bin, where it prevents bacteria and fungi from adhering to the surface. A series of tests clearly confirms this effect (see illustration below). Illustrated are two Petri dishes with sample pieces of plastic – with, and without, the additive. Successful tests were carried out on Listeria, E-Coli, Salmonella, Staphylococcus and Black Mould. The samples with the additive clearly show a sterile zone around the plastic!

without additive *with additive*

Source: Law Lab, England

The safety plus for all waste bins!

As an option you can order this combined anti-bacterial protection for all plastic containers. The growth of odour producing and harmful bacteria is almost totally prevented by this long lasting and reliable technique.

Conclusion

Better conditions with longer bin emptying cycles – especially in warm weather conditions.

The additive provides improved hygienic conditions for refuse collection, both for residents and refuse workers.

All this increases the long-term acceptability of the collection system!

Bio-bin variations

Compostainer® 120–240 litres, ventilated

The multi-talented SSI SCHÄFER Compostainer® is the thoroughly ventilated bin which makes a fortnightly collection cycle for compostable waste biologically and ecologically safe. Spacer ribs on the inner walls, a drainage grill and ventilation holes in the walls and lid are the distinguishing features of this bin.

see page 37 for technical data

standard colours (special colours available on request)

RAL 8025 pale brown

RAL F-7/W1 green

120 – 360 litres bio-bin, normal ventilation, with drainage grill and ventilation holes

The alternative to the professional Compostainer®.
This bin is based on the standard 120 – 360 litres refuse bins and is equipped with ventilation holes in the walls and a grill for water drainage. As an optional extra, the lid can be fitted with rubber spacer plugs to provide optimal ventilation.

see page 37 for technical data

standard colours (special colours available on request)

RAL 8025 pale brown

RAL F-7/W1 green

60 – 360 litres unventilated bio-bin

The classic among the bio-bins. SSI SCHÄFER refuse bins from 60 – 360 litres in the non-ventilated version. This is an ideal bin for subsequent anaerobic composting treatment.

see page 37 for technical data

standard colours (special colours available on request)

RAL 8025 pale brown

RAL F-7/W1 green

cost-effective change to the Diamond System

rear loader with combined comb / diamond-lifter

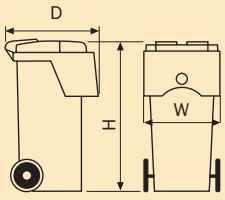
comb lifters are replaced by combination comb / diamond-lifters – this allows a mixed utilisation of 2- and 4-wheeled GMT/MGB and DU (diamond) bins in one and the same collection area

re-equipping of standard bins with an adapter

adapter | adapter to standard GMT | re-equipped standard GMT

the collection areas can be converted step-by-step to the Diamond system (DU bins)

this makes the changeover even more cost-effective



DU 240 l

DU eXtra 240 l

Diamond bins 60 – 360 litres

The waste disposal system of the future saves time and money. The emptying of diamond bins requires only one refuse worker – the driver. Instead of a comb lift the refuse vehicles are fitted with a diamond lift (or a combination of both systems). The diamond lift picks the bins up, secures them and, in this way, it enables the bin to be picked up, emptied and replaced quickly and safely.
The self-location of the bin on to the lifting mechanism with diamond lifts enables the emptying process to run up to **20 % quicker** than with traditional methods. The firmly secured position of the bin also prevents accidents. The one-man operation of the collection and the quick and safe handling offer enormous potential savings.

DU bin*	60 l	80 l	120 l	140 l	240 l	360 l	240 l steel
Width mm (W)	500 max	500 max	500 max	500 max	585 max	660 max	585 max
Depth mm (D)	610 max	610 max	610 max	610 max	795 max	955 max	795 max
Height mm (H)	952 max	952 max	952 max	1,085 max	1,085 max	1,096 max	1,085 max
Nominal vol. l	60 +10/0	80 +10/0	120 +15/-5	140 +15/-5	240 +15/-5	360 +40/-5	240 +15/-5
Payload kg	40	40	48	56	96	144	144
Wheel-ø mm	200	200	200	200	200	200	200

all dimensions are nominal in accordance with DIN 30760

* DU 60 – 360 l standard with external wheels,
DU 120 and 240 l also available with recessed wheels

standard bin colours

RAL 7016 anthracite grey | RAL 8025 pale brown | RAL 5015 sky blue | RAL F-7/W1 green | RAL 1021 rape yellow

colours are subject to deviation

Diamond System

Advantages

fast: considerable time saving in bin lifting process

economic: emptying by one-man operation possible

safe: completely secure bin positioning due to perfect location

retrofittable: fast and easy conversion from GMT bins to the DU system

manufactured in accordance with the DIN 30760 standard

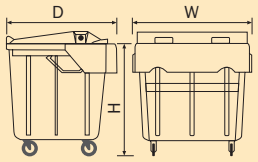
additional noise reducing options available
see page 32

individual lid and body printing possible
see page 46

prepared for the fitting of chips for identification and weighing
see page 88

many optional locking systems available
see page 48

DU MGB 660 to 1,100 litres



DU MGB 660 litres

DU MGB 1,000 litres*

DU MGB 1,100 litres steel*

*optional foot pedal lid opener

DU MGB	660l plas.	770l plas.	1,000l plas.	1,100l steel
Width mm (W)	1,280 max	1,280 max	1,280 max	1,280 max
Depth mm (D)	850 max	850 max	1,160 max	1,160 max
Height mm (H)	1,370 max	1,370 max	1,470 max	1,470 max
Nominal vol. l	660 ± 5%	770 ± 5%	1,000 ± 5%	1,100 ± 5%
Payload kg	264	308	440	440
Wheel-ø mm	200	200	200	200

all dimensions are nominal in accordance with DIN 30760

robust construction

DU lifting collar with strengthening ribs

variable wheel options

all DU bin sizes available with external wheels

DU 120 and 240 l also available with recessed wheels

accessories

prepared for identification systems, chip nest

for compostable waste – with lid gap spacers and ventilation holes in the bin walls

DU 240 litres galvanised steel

galvanised version for use in places of high fire risk

body
non-slip, textured finish on corners for efficient use with clamp lifters

bar
integrated steel bar for less stress on bin body; extra wall thickness in bar area

upper pick-up attachment
integrated moulded attachment for all common US bar-lock lifting systems

lid
new, easy opening lid design and ergonomic handles

US-System bins from 35 to 95 gallons

In order to meet the requirements of the existing US standards for the waste industry, SSI SCHÄFER produces US-System bins of 35, 65 and 95 gallons in its US factory in Charlotte, N.C. Including the European production sites, SSI SCHÄFER can therefore produce and distribute all types of bins which are in use throughout the world.

A complete range of bins from one source – worldwide.

No matter if the bins are lifted by a standard bar-lock lift or an automated clamp lift or a comb lift, the US-System bins are compatible to all existing US bin emptying technologies and flexible in use.

US-System bin	120 l/35 gallons	240 l/65 gallons	360 l/95 gallons
Width mm (W)/inch	578 / 22.7"	658 / 25.9"	704 / 27.7"
Depth mm (D)/inch	568 / 22.3"	673 / 26.5"	803 / 31.6"
Height mm (H)/inch	970 / 38.2"	1,072 / 42.2"	1,171 / 46.1"
Nominal vol. l/gallons	132 / 35	246 / 65	360 / 95
Wheel-ø mm/inch	200 / 8"	200 / 8"	300 / 12"

all dimensions are approximate

standard colours

RAL 7016 anthracite grey
RAL 8025 pale brown
RAL 5015 sky blue
RAL F-7/W1 green

colours are subject to deviation

US-System bins

Advantages

fast:	considerable time saving in bin lifting process
economic:	emptying by one-man operation possible
safe:	completely securely located bin when used with a standard bar-lock system
suitable for side-loaders:	high emptying speed with heavy weights

emptying by side loader with clamp lift

emptying with standard bar-lock system

emptying by front / side loading vehicle with comb / clamp system

insertion slot with security chute

Advantages

cost-effective special bin for
the collection of confidential paper

secure collection of confidential
and personal documents

flexible and mobile in use

the right bin size according
to the volume required

locking by special padlock fitting
for GMT and MGB containers

secure collection by means of
400 x 30 mm insertion slot for confidential
paper with extended 95 mm chute

individual lid and body printing possible
see page 46

EDP bins

GMT 240/360 and MGB 500/600 litres

EDP bin	GMT 240 l	GMT 360 l	MGB 500 l	MGB 660 l
Width mm (W)	580 ±5	665 max	1,370 ±10	1,370 ±10
Depth mm (D)	740 max	880 max	680 max	780 max
Height mm (H)	1,100 max	1,115 max	1,170 max	1,250 max
Nominal vol. l	240 +15/-5	360 +20/-40	500 ±5%	660 ±5%
Payload kg	96	144	200	264
Wheel-ø mm	200	200/300	200	200

all dimensions are nominal in accordance with DIN EN 840

padlock fitting for GMT

gravity lock for GMT

insertion slot

padlock fitting for MGB

Food Waste

lid with rubber seal and triangular lid lock (SKP type)

Food waste bin GMT 120 and 240 litres

Apart from their ordinary waste, canteens, hospitals, old people's homes, restaurants, snack bars and butcher's shops also have to dispose of food leftovers and organic waste. These businesses are obliged to observe legal hygiene laws and regulations.

SSI SCHÄFER bin systems fully comply with all requirements in respect of the treatment of organic waste.

Because of the large stresses involved in heavy organic waste loads, SSI SCHÄFER has developed the special GMT bin system for food waste. Large amounts of waste can be loaded due to a special bin design with increased wall thickness so that the collection intervals can be significantly reduced.

This bin system offers you the maximum of cleanliness and safety!

Advantages

increased payload

largely prevents side effects, such as sewer gas or the development of maggots

increased wall thickness

many years of service life

compatible with identification and weighing systems

usable with all common emptying systems

multi-purpose use with extensive accessories

made exclusively of virgin HDPE

optional extra:
sealing by means of rubber seal on lid

optional extra:
reduction of harmful bacteria (Compolux® system)
see page 38

individual lid and body printing possible
see page 46

lid lock with z-shaped steel tongue

Food waste bin	120 l	240 l
Width mm (W)	505 max	580 ±5
Depth mm (D)	555 max	740 max
Height mm (H)	1,005 max	1,100 max
Nominal volume l	120 +8/-6	240 +15/-5
Increased payload kg	**96**	**192**
Wheel-ø mm	200	200

all dimensions are nominal in accordance with DIN EN 840

standard colours (special colours available on request)

RAL 8025 pale brown

RAL F-7/W1 green