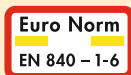




The best way
to make savings
is to buy quality!



SSI SCHÄFER

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**Waste Management
& Recycling**

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The Effective System for Waste Management



Waste Management
Main Catalogue

A comprehensive product range

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at a glance

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SSI SCHÄFER Main Works, Neunkirchen, Germany

Quick availability through
extensive stockholding!



The SSI SCHÄFER organisation has been a German family company, managed by the owners since it was founded in 1937. With more than 48 subsidiary companies worldwide the SSI SCHÄFER Group is a strong and reliable business partner.

Whether in industry, commerce, trade or local authorities, SSI SCHÄFER products are to be found in use in all continents where they fulfil their functions safely and intelligently.

Quality, innovation and customer service are the guidelines, according to which, the company has always developed and produced product ideas and systems. We work today for tomorrow's markets.



SSI SCHÄFER uses more than 400,000 tonnes of steel and more than 50,000 tonnes of plastic granulate every year.

The most modern production lines and precision tools guarantee consistently high product quality.

Well targeted quality management conforming to DIN ISO 9001 and RAL ensures the high reliability and strength of our products – confirmed by independent testing authorities.

Our in-house development departments ensure continuous product development and produce innovative new products.

A worldwide comprehensive sales network facilitates direct links with the customer. This close relationship creates trust and the best possible customer care.

More than **70** years of experience in the production of container systems speaks for itself! More than **35** years specialisation in the fields of refuse and recycling technology creates trust. Use this experience. **Worldwide.**



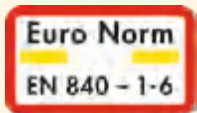
To buy quality is the best way of saving!

Ever increasing demands for the protection of the environment require new collection systems, which enable reusable materials to be separated from the residual waste and returned to the economic cycle. To this end we have worked to show the way and develop new standards.

A comprehensive and certified range of the various containers in steel and plastic – equipped for the common lifting systems – is available for all forms of refuse collection.

For this range of containers the quality of the systems and products plays a vital role, since refuse containers have to stand up to large quantities of material every day. With SSI SCHÄFER the production is subject to constant quality testing – both during the production process and by external testing organisations.

There are no compromises for us, where quality is concerned. Long service life and trouble-free use are a certain recipe for long term success and enduring business relationships. You can rely on that.



Rough and continual use requires robust and durable containers for refuse and recyclable materials. In order to guarantee these qualities, SSI SCHÄFER containers are subject to stringent quality controls. SSI SCHÄFER is a member of the **RAL-Quality Association** (RAL – German Institute for Quality Assurance and Quality Mark reg. assoc.) and thereby higher quality standards than the EU-Standard (**EN 840 1-6**) are required. Only the constantly monitored members of the RAL-Quality Association may mark their metal and plastic refuse containers with the **RAL-Quality Mark**.

Production of the refuse and recycling containers is re-checked every year by an independent institute, e.g. SKZ Würzburg.

In addition prescribed in-house checks on manufacture and material must also be carried out. These measures guarantee a consistently high level of quality.

Only the best raw material from well known suppliers is used. New developments are also thoroughly tested for quality and performance.

Quality testing

These example tests are for the GMT 240

Drop Test

A container filled with a **weight of 100 kg** is repeatedly dropped from a height of **3 metres** on to a flat, hard impact surface.

Wheels Test

The wheels of a container, filled with a weight of 100 kg, are run in a circle over a concrete surface for a continuous period of more than 24 hours. With each circuit, by means of a suitable ridge in the floor, the wheels are subjected to an intentional shock, directly on to the wheels and axle (Kerbstone Test).

Ball Impact Test

A steel cylinder weighing 5 kg inside a tubular sleeve is dropped from a height of 1 metre precisely onto the edges, hinges and other vulnerable places of the container.

Hot Cabinet

The containers are placed in a circulating hot air oven for a period of 36 hours at a temperature of 90° – 95°C. At the end of the test there must be no decrease in the operational performance, nor must there be any cracks in the material. Any deformation of the material must be within the prescribed maximum tolerance of 1.5%.



Drop Test



Residual refuse/collection from a multi-family residence



Compostable refuse collection at the house



Paper bank/central collection of recyclable material



Collection in operation

Waste minimisation by Collection of Recyclable Material

We have to dispose of refuse – and in the easiest, most environmentally friendly and, above all, most cost-effective way possible. This requires a great deal of knowledge and experience. If properly organised, refuse becomes raw materials, the sale of which generates money instead of costs.

Decades of experience with containers from SSI SCHÄFER Waste Management and Recycling makes this utilisation easier, more effective and, in no way, more complicated.

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Collection of compostable waste
Collection of recyclable waste paper
Collection of recyclable waste glass
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SSI SCHÄFER Collection System – in service worldwide
Advantages of the SSI SCHÄFER Collection System

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Product range 4 wheeled MGB refuse containers
Product range depot containers / recycling banks
Containers for industrial / commercial refuse, special containers
Range of services available from SSI SCHÄFER
Identification systems
Business areas of SSI SCHÄFER
SSI SCHÄFER worldwide

Why do we need organised collection of refuse in containers



If refuse is not collected by an organised system...

Today environmental pollution is no longer a subject or a crime, which can be viewed in regional or national terms, but, in view of dissemination through the air, the ground and the water, affects the well-being of all people.

The aim is therefore, in regions where refuse is still thrown out on to the streets, ends up in stretches of water or is tipped in woodland, to create a sense of responsibility in the refuse producer, and to create an awareness of the problem and organisation around the subject.

The first step is to build an effective refuse collection system.

Advantages of the Container System

- Sufficient volume for domestic refuse and for recyclables.
- Easy to handle for the residents and the refuse workers due to the wheels. No more heavy lifting, consequently considerably easier working conditions – also for the refuse workers.
- Since the opening at the top of the containers is large, bulk items or special refuse can also be inserted.
- The refuse is hygienically collected in these large plastic containers; the refuse worker does not come into any form of contact with the refuse at all. Therefore there is no more unhygienic handling with overflowing small bins or badly tied and split refuse sacks.

Solutions

Introduction to organised, clean waste management:

1. Collect refuse in containers



2. Empty efficiently



3. Disposal to landfill or incineration



New environmental challenges along with necessary ecological requirements and the diminishing waste disposal resources for domestic and similar waste, call for responsible initiatives in order to achieve significant reduction in the large volume of waste.

Concentrating on the subject of recycling, it was important to us to develop an economic as well as an ecologically friendly collection system, which was compatible with existing systems, i.e. capable of being integrated with existing waste management systems without involving large technical and financial resources. At the same time, such a system had to allow the collection of the maximum volume of high quality recyclable materials, thus minimising the remaining waste volume.

On the grounds of environmental care, one starts out in the first place, to **avoid** waste, secondly to **recycle** those materials which cannot be avoided, and thirdly to **dispose** of waste materials by landfilling or incineration, if they can neither be avoided nor recycled.

Achievement of the best possible recycling results using separated collection:

1. Collect segregated material fractions in colour-coded bins



2. Empty individual fractions efficiently



3. Recycle

In our experience an effective information campaign and a partnership between the waste management organisations and the residents in making clear the need for waste reduction result in a high degree of public acceptance and active participation.

Separate collection at source only makes sense if the reclaimed materials can be effectively fed back into the economy, i.e. if there is a market for these reusable materials.

It is quite possible to reduce the present waste volume by more than 70%.

Recycling does not only reduce the waste volume, but also helps to conserve natural resources. The significance of recycling becomes clear, when you consider that, for example, one ton of recycled paper saves 1,700 kg of timber and 109,000 litres of water.



Wheeled bin for residual waste



Collection at source – Single-family house

An organised waste collection system requires waste to be placed in containers

Waste to landfill without separate collection means:

- No recovery of valuable materials
- High degree of environmental pollution due to landfills, which have a potential to produce leachate contaminating the groundwater and methane gas for as long as 100 years, so that future generations still have to deal with the problem
- Non-degradable materials contaminate the soil, making re-use difficult
- Maintenance of old landfills involves high costs for many decades



Collection at source – Multi-family residence



Collection with refuse vehicles

Residual Waste

No reduction
without recycling

Landfill volume
100 %



100 %





Garden waste and clippings



Easy segregation in the kitchen

The **first** step towards organised waste reduction

- The separate collection of organic waste reduces the waste volume by at least 35% (even up to 60% depending on the region)
- Organic waste separated from domestic waste is used to produce high quality compost or for energy recovery
- Diversion from landfill and incineration saves capacity, new sites and plants can be reduced in size and operate more cost-effectively

See page 34 for detailed information about organic waste



Collection at source – Multi-family residence



Collection with refuse vehicle

Organic Waste

by separate collection
of organic waste

Reduction of
≈ 35 %



≈ 35 %



≈ 65 %





Collection at source – Multi-family residence



Collection at source – Single-family house

Waste paper – an important resource

- A further reduction of the waste volume can be achieved by the separate collection of paper and cardboard
- Waste paper is used to produce new paper
- Many goods, like newspaper, for example, are made from 100% waste paper
- In this way natural resources are conserved, paper production becomes more energy-saving and environmentally friendly



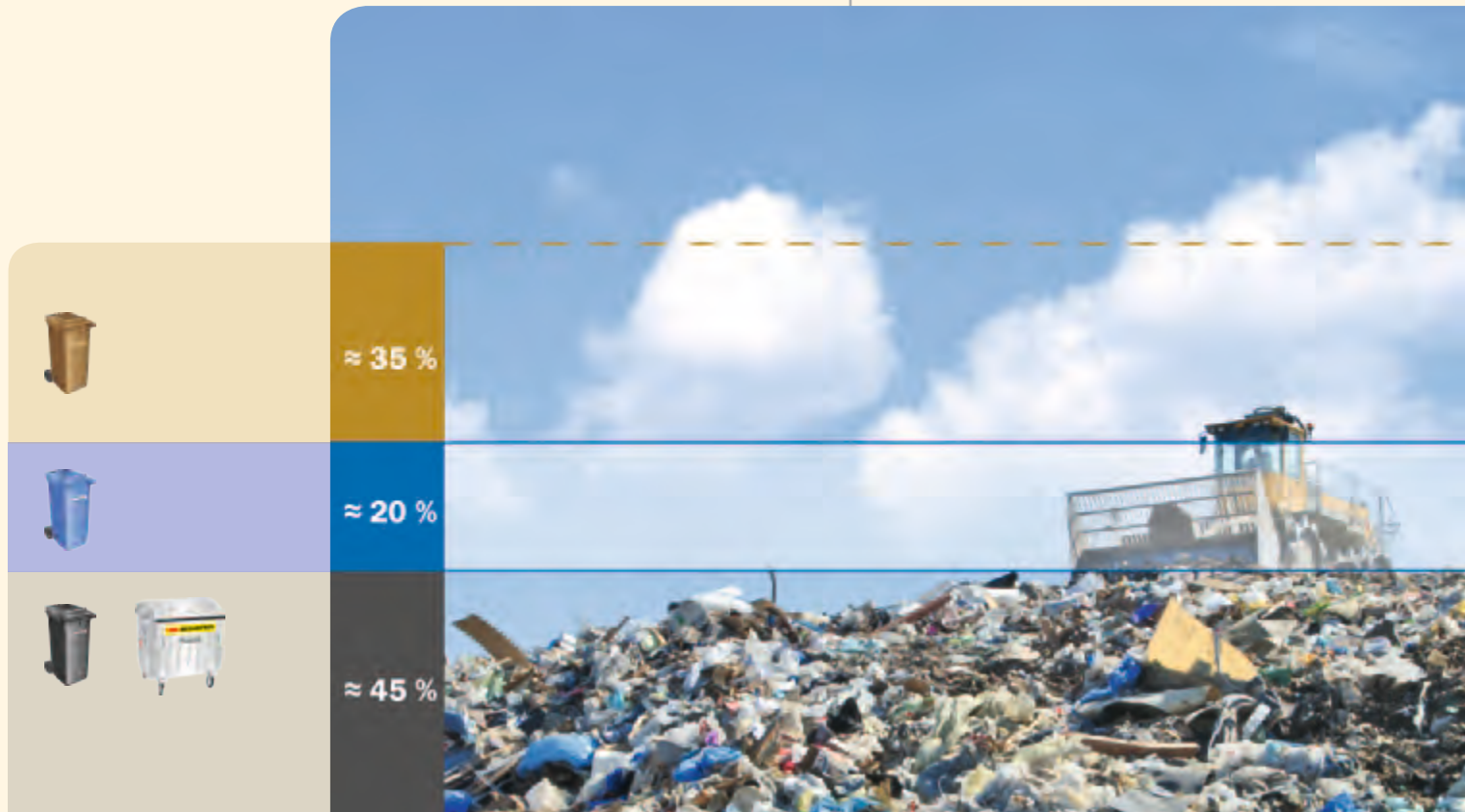
Central collection in depot container



Collection for waste paper recycling

Waste Paper

by separate collection
of waste paper
a further reduction
of
≈ 20 %





Glass collection – on site with MGB



Central depot container – underground collection site

Waste glass – “new from old“

- The waste stream is further reduced by about 10% through the collection of waste glass
- All glass packaging is obtained by the collection of white glass, green glass and brown glass
- The recycled waste glass is melted down and 100% goes back into the cycle

For detailed information about the depot containers and the Grumbach System, see from page 66



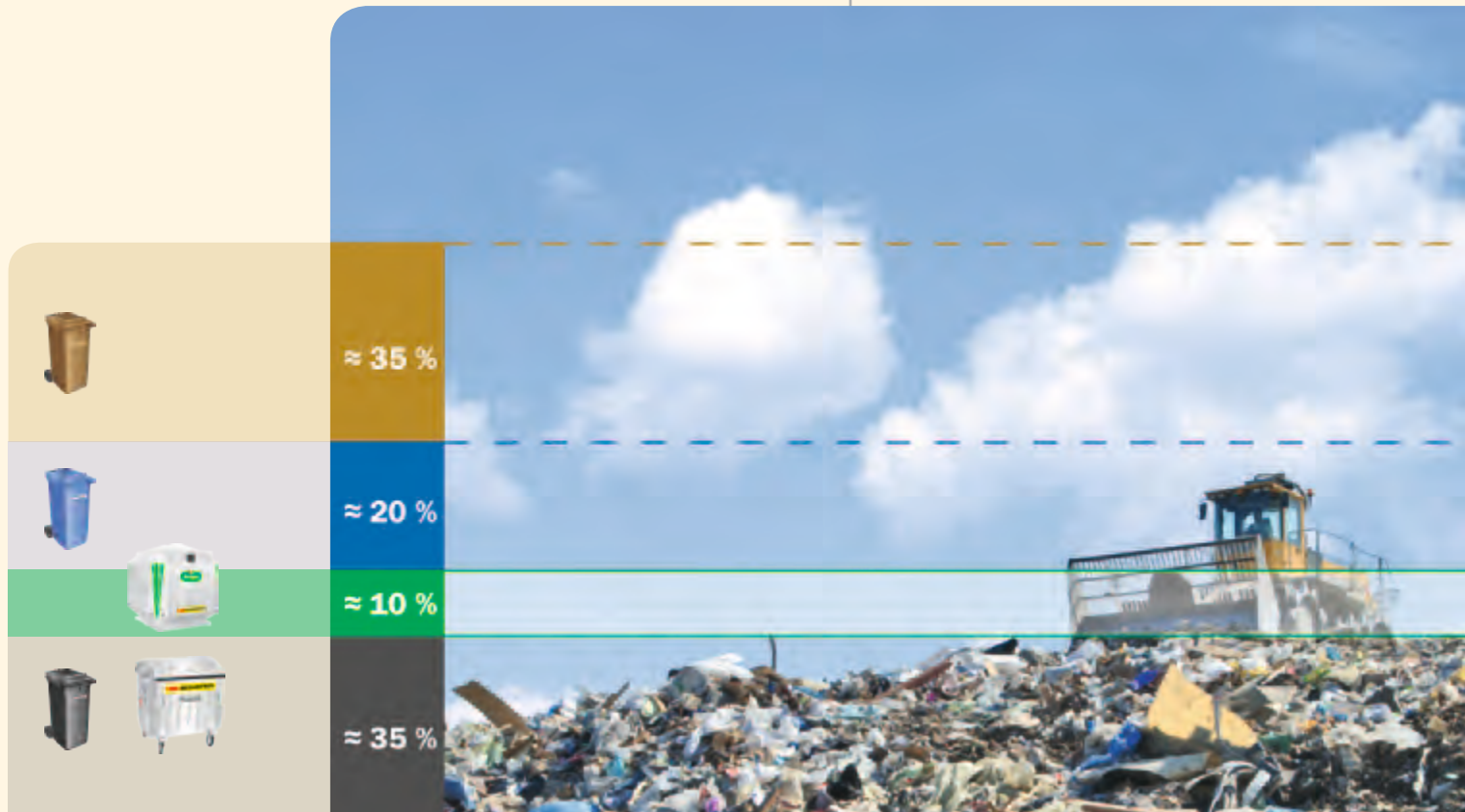
Central depot container collection site



Glass collection, special discharging system

Waste Glass

by separated collection
of waste glass
**a further reduction
of
≈ 10 %**





Containers for light packaging



Collection at source – Single-family house

Packaging cycle

- Light packaging e.g. plastic and drinks cartons form a small part of the weight of the refuse, but a large part of the volume
- The separated collection of light packaging reduces the refuse volume by about 7 %
- As a result new plastic products or new packaging are achieved
- Modern separation plants cleanly sort foils, metals, styrofoam, other plastics and laminated packaging



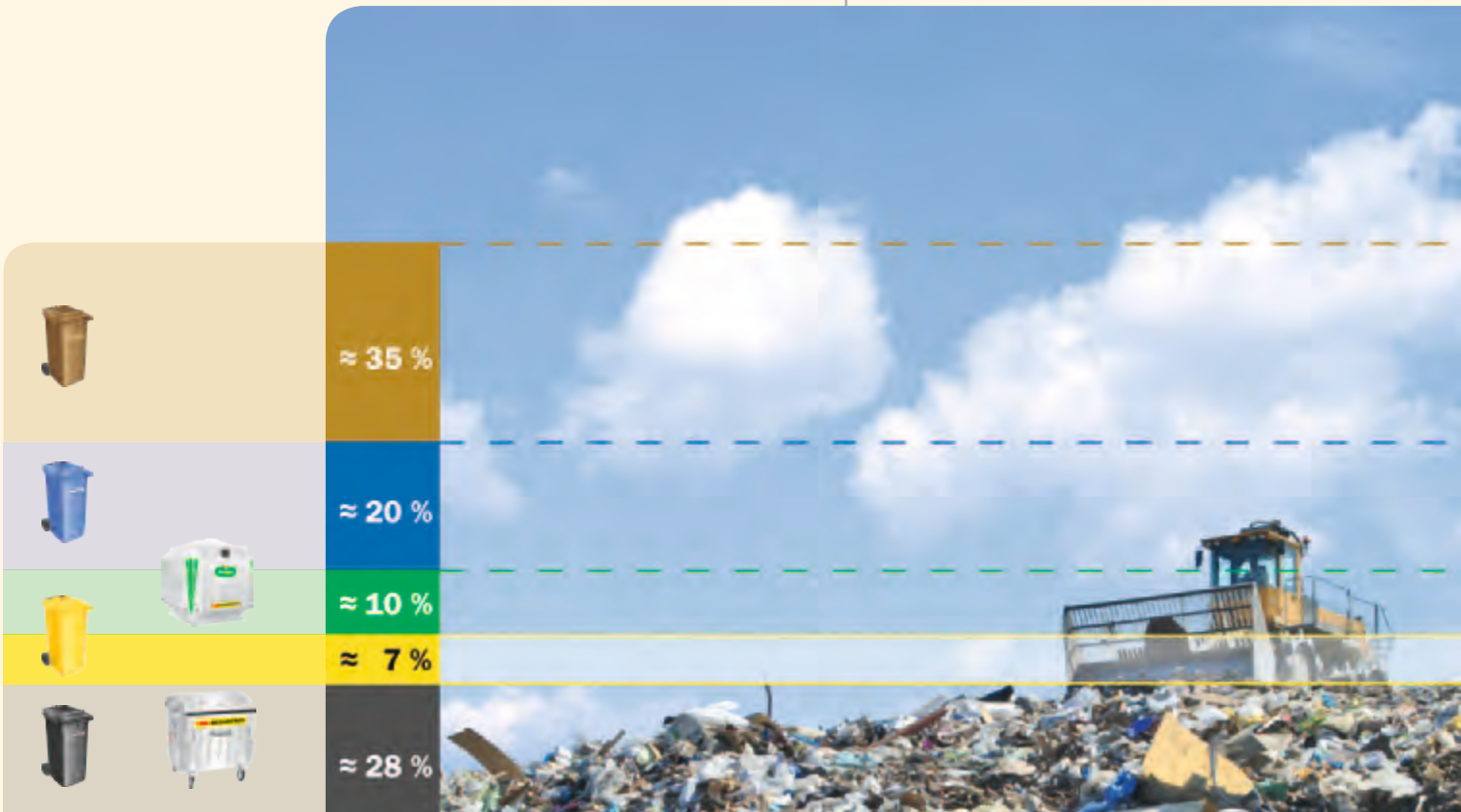
Collection at source – Multi-family house



Collection of light packaging

Light packaging

by separated
collection of
light packaging
**a further reduction
of
≈ 7 %**



Summary: separated waste collection

Impressive results are obtained by an integrated waste management system:

- collection of all refuse in containers
- separation of refuse with colour-coded containers at source
- reduction of the volume of refuse by re-use
- reduction of the residual waste by up to 30%
- achieve national and international targets e.g. Kyoto Protocol
- sustained protection of the environment and the climate

Refuse without
separate collection

disposal

100 %



100 %



Landfilled waste without separate collection

Through the use of the SSI SCHÄFER System up to **70% of re-useable refuse** can be segregated from the waste stream and re-used as raw material



Organic Waste
≈ **35%**



Waste Paper
≈ **20%**



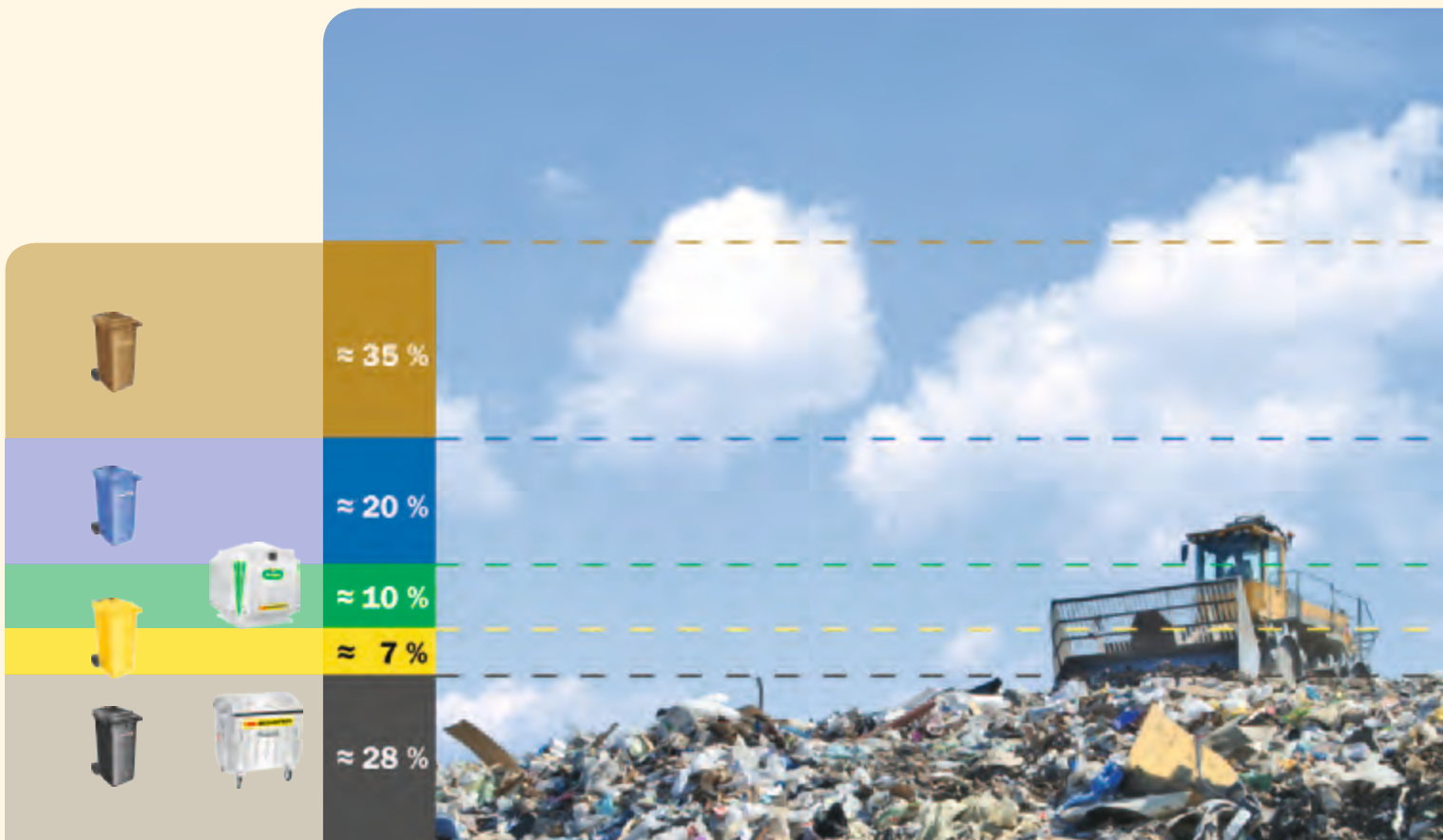
Waste Glass
≈ **10%**



Light packaging
≈ **7%**

In this way the following percentage is achieved in Europe

Landfilled waste volume
reduced to only
< 30%



Reduction of landfilled waste volume by separate collection

In use throughout the world

SSI SCHÄFER Systems work everywhere !

Whatever your requirements, ask SSI SCHÄFER for information about the most suitable collection system for your region, council or city. We will give you detailed advice and offer you an individually tailored solution. You can rely on this.



Buchhellertal, Germany



Paris, France



Greenwich, England



Manchester, England



Edinburgh, Scotland



London, England



Berlin, Germany



Philippines



Colorado, USA



Sydney, Australia



Singapore



Kamp-Lintfort, Germany



Warwick Castle, England



Hawaii, USA



Meppel, Netherlands



Prague, Czech Republic

SSI SCHÄFER containers are used by residents and refuse workers worldwide, because they are **so easy** to handle.

Advantages of our system –

many container types and sizes

GMT, MGB or Diamond Containers – all of them can be emptied with one and the same refuse vehicle!



Standard comb lifting system on containers and vehicle

Advantages of our integrated system

The waste volume varies from one region to another and is mainly influenced by the size of the properties and the density of the housing – single-family or multi-family houses. This calls for a flexible collection system offering various container sizes which can all be emptied with the same vehicle in one region.

The above picture shows that comb lifting systems have been in use in Europe for many years to empty 60 litres bins (two-wheeled) just as easily as plastic and steel 1,100 litres containers. This saves considerable time and money, since one vehicle is used to empty all containers in the collection area.

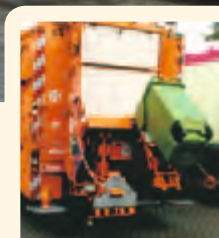
With an integrated waste management concept the individual recyclable material fractions are segregated at source by residents and collected in colour-coded bins for recycling. The same vehicle can be used to empty either the grey bin for residual waste, the brown bin for organic waste, the blue bin for waste paper or the yellow bin for light packaging.

In view of the enormous reduction of the waste volume by 70% to 30% due to recycling, the collection of residual waste e.g. can be changed from a weekly to a monthly cycle.

It is no problem at all to use one vehicle to collect organic waste for composting in the morning and waste paper and cardboard for paper production in the afternoon. In this way the use of an integrated collection system results in a further cost reduction.



▲ Emptying GMT containers



▲ Emptying Diamond containers

▼ Emptying MGB containers



One refuse vehicle for different material fractions

Without the need for refitting, a modern refuse vehicle with a comb lifting device can, for example, collect organic waste in the morning and waste paper, light packaging or residual waste in the afternoon. It is vital, however, to brief residents with good information, e.g. by providing them with a monthly or annual collection calendar informing them clearly of the collection dates for the individual colour-coded bins and material fractions.

The more precise the information and the simpler the system, the greater the acceptability to the residents.

Practical experience confirms:



Mr. Frank Bördner, Works Manager at the company Bördner Collection Services, District Council Limburg-Weilburg, says:

“In our district council we use the same vehicle to collect residual waste every 4 weeks, organic waste every 2 weeks, waste paper and cardboard every 4 weeks and light packaging every 4 weeks. To make it easier for the residents we provide each household in the district with a calendar which shows the exact collection dates. We are amazed at the high degree of active participation by the residents. This is certainly because the system is so simple and the bins are conveniently situated as close as possible to the houses.

There are almost no contaminants in the organic waste and waste paper bin. The clean segregation of light packaging seems to be more difficult. After the introduction of the separate collection 10 years ago, the residual waste collection could be reduced in frequency from weekly to monthly, which resulted in a clear cost saving. This was an essential precondition for the introduction of the separate collection. Another advantage is that our vehicles are used to full capacity. When the landfill site closes in the afternoon, our vehicle can be used to empty the blue paper bins, for example, and bring the material to our own sorting plant at any time.

We have no problems in finding markets for the separately collected materials, because we have longterm supply contracts. We know that our residents are supporting the system and participating, and we are pleased to see how cleanly they segregate recyclables and residual waste.”

Abfallfraktion	Samstag	Sonntag	Montag	Dienstag	Mittwoch	Donnerstag	Freitag
Restmüll (Residual waste)							
Grünabfall (Organic waste)							
Altpapier (Waste paper)							
Leichtverpackung (Light packaging)							



Collection of residual waste



Collection of organic waste



Collection of waste paper



Collection of light packaging



Product Overview

Two wheeled bins / GMT bins

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GMT standard bins
GMT eXtra
Bins with noise reduction
Organic waste – aerobic and anaerobic collection
Compostainer® – thoroughly ventilated bio-bin
Compolux® and unventilated bins
Diamond bins
US-System bins
Food Waste Bins
Collection Bin for documents
ergolid system
Hot die stamp embossing
Locking systems

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Product range 4 wheeled MGB refuse containers
Product range depot containers / recycling banks
Containers for industrial / commercial refuse, special containers
Range of services available from SSI SCHÄFER
Identification systems
Business areas of SSI SCHÄFER
SSI SCHÄFER worldwide

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



- ▲ One piece tubular handle on the GMT 120 and 240 litre GMT eXtra. Lid with 2 point hinges.

options for noise reduction



Restriction of lid movement when falling open



- ▲ 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 7021	RAL 8025	RAL 5015	RAL F12	RAL 1021	RAL 2002
grey	pale brown	sky blue	green	rape yellow	traffic red

colours are subject to deviation

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 48

prepared for the fitting of RFID chips for identification and weighing
see page 92

optional locking systems available
see page 50

Technical Data



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
empty weight kg, approx.	10,5	10,5	9,4-10,5	10,1	13,5-14,9	16,4-18,6
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

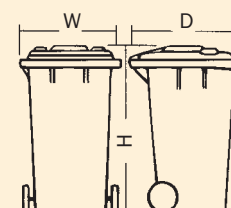
individual hot die stamp printing available according to requirement *see page 48*

security systems



▲ example of a gravity lock

security systems against misuse can also be retrospectively fitted
see also page 50



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



GMT eXtra 120 litre

GMT eXtra 240 litre

▲ Improved ground stability, due to new shape of the base moulding, strengthened wheel housing and wheel mounting. GMT eXtra 120 with standard size new strengthening and sliding ribs.

reinforced lifting comb



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

Wheeled Refuse Bins GMT eXtra



Wheeled Refuse Bins GMT eXtra 120 and 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- \varnothing mm
120 l	505 max	555 max	1.005 max	120 +8/-6	48	200
240 l	580 \pm 5	740 max	1,100 max	240 +15/-5	96	200

all dimensions are nominal in accordance with DIN EN 840



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.

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, the new GMT eXtra which offers the maximum service life through its robust construction.

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.

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 48

prepared for the fitting of chips for identification and weighing systems
see page 92

many optional locking systems available
see page 50



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 thoroughly 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®

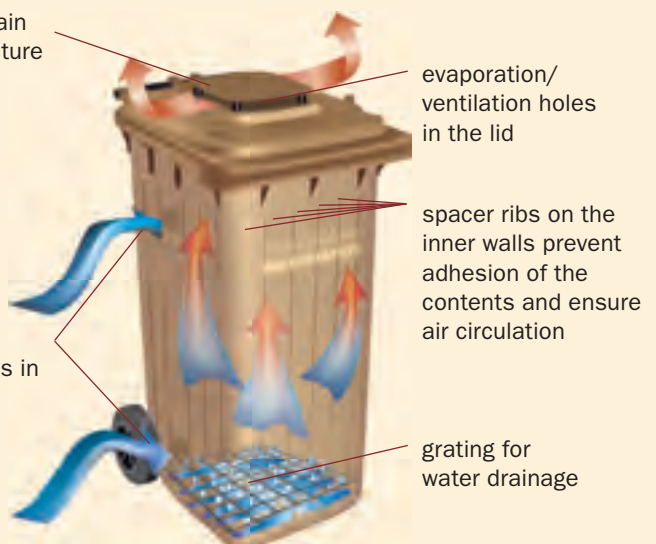
The thorough ventilation provides a high oxygen supply to the contents. This supports the activity of the microorganisms inside the material which are responsible for the aerobic decomposition of the material. Compostable waste, collected by Compostainers® has a pH-value of 7.0 and, therefore, is well 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.

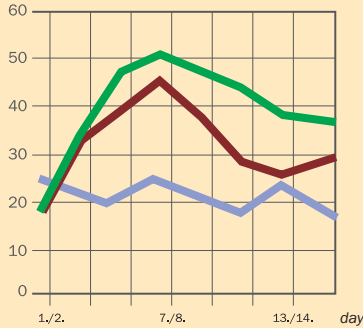
cover against rain water and moisture

top and bottom ventilation holes in the left and right side walls



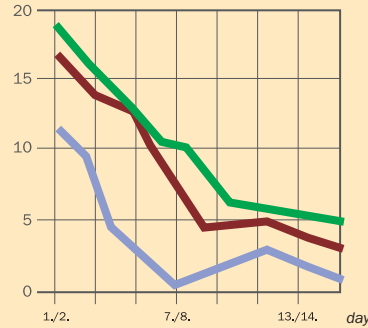
Technical results speak for the Compostainer®

Temperature fluctuation (°C) over days



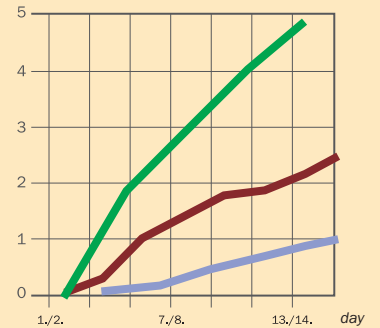
The diagram shows, that the temperatures depend on the intensity of the ventilation; the better the ventilation, the higher the temperature and therefore the activity of the microorganisms responsible for aerobic decomposition resulting in the reduction of unpleasant smells.

Oxygen content (O₂) 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



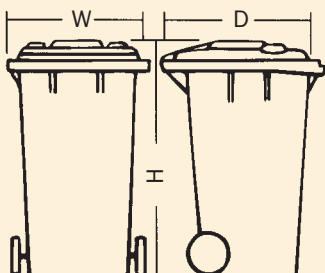
The markedly higher weight loss of 13% in the Compostainer® is a result of the intensive ventilation.

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 decomposition 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 F12 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!



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

RAL F12

pale brown

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

RAL F12

pale brown

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

RAL F12

pale brown

green



cost-effective change to the Diamond System



rear loader with combined comb/diamond-lifter

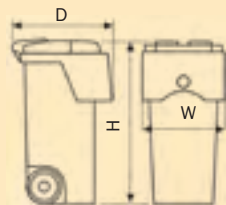
comb lifters are replaced by combination comb/diamond-lifters – this allows a mixed utilisation of 2- and 4-wheeled GMT/MGB and DU (diamond) bins in one and the same collection area

re-equipping of standard bins with an adapter



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

this makes the changeover even more cost-effective



Diamond System



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.

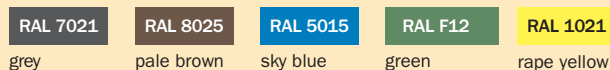
The self-location of the bin on to the lifting mechanism with diamond lifts enables the emptying process to run up to **20% quicker** than with traditional methods. The firmly secured position of the bin also prevents accidents. The one-man operation of the collection and the quick and safe handling 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



colours are subject to deviation



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 48

prepared for the fitting of chips for identification and weighing
see page 92

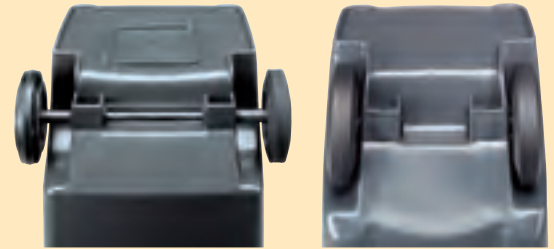
many optional locking systems available
see page 50

robust construction



- ▲ DU lifting collar with strengthening ribs

variable wheel options



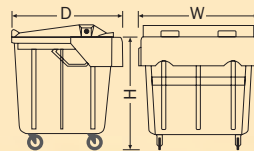
- ▲ all DU bin sizes available with external wheels
- ▲ DU 120 and 240 l also available with recessed wheels

accessories



- ▲ prepared for identification systems, chip nest
- ▲ for compostable waste – with lid gap spacers and ventilation holes in the bin walls

DU MGB 660 to 1,100 litres



DU MGB 660 litres

DU MGB 1,000 litres*

DU MGB 1,100 litres steel*

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

DU 240 litres galvanised steel



- ▲ galvanised version for use in places of high fire risk

adapted designs



- ▲ **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



- ▲ **new, easy opening lid design and ergonomic handles**

US-System bins



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 7021

grey

RAL 8025

pale brown

RAL 5015

sky blue

RAL F12

green

colours are subject to deviation

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

Emptying Systems



The GMT and GMT eXtra S for food waste are suitable for all current emptying systems.



Equally whether for tipping systems....



... or classical container exchange

Food Waste Bins



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!



Cutaway picture of the wheel

Optional: Double sprung pins fitments guarantee permanent seating of the wheels to the axles, also with maximum loads.

lid lock with z-shaped steel tongue

Front friction lock



Snap hook



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



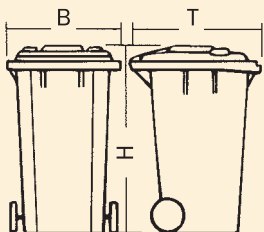
GMT extra 120 S and 240 S



GMT extra 120 S and 240 S litres

The GMT extra S for waste food is a further development of the tried and tested GMT Waste Food Container. The requirements for these special refuse bins require the development of new materials and changes to parts of the stressed construction of the containers without sacrificing the advantages already built into the Waste Food GMT.

These changes guarantee a more robust operation during the emptying process and thereby offer increased cost-effectiveness.



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 7021 grey	RAL 8025 pale brown	RAL 5015 sky blue	RAL F12 green
RAL 1021 rape yellow	RAL 2002 traffic red		

Advantages

Suitable for waste food, kitchen and grocery waste, animal carcasses.

Optional: Modified material for extremely high content weights as well as high cleaning demands.

Optional: Wheels with double sprung pins fitments for permanent seating.

Suitable for heavy maximum loads.

Individual lid and body inscriptions available.

Prepared for the installation of data-carrying chips for identification and weighing.

Many optional locking systems available.

Quadruple axle housing on the GMT 240 S with improved profile

Improved ground stability due to new sliding ribs

Strengthened comb receiver due to increased number of supporting ribs

Increased strength due to stress analysed shape of the front and back

Base of the 120 GMT extra S



Collection Bin for documents



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 48



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



ergolid system



ergolid lid with inscription

The “**ergolid**” lid with its ergonomic lifting flange is ideal for the easy opening of the lid from any position and is a further building block in the evolution of the GMT container system.

It makes a large area available for written captions and inscriptions to enable individual identification features.



Because of its large surface area, the “**ergolid**” provides plenty of space for the display of information using stickers and inscriptions



„ergolid-plus“

The “**ergolid plus**” from SSI SCHÄFER is a further development of the “ergolid” with the aim of offering the new GMT Lid System for the different refuse fractions without the necessity of high modification and transport costs

A particular characteristic of the Plus Variant is the identification clip on the lid lifting flange.

The “ergolid plus” enables a practical, cost-effective and efficient container management method.

Identification with the “**ergolid clip**” offers an easy way of altering the fractions. Exchanging the lid, or even the complete container, is, by this means, no longer necessary.

Fitting and removal of the “**ergolid clip**”



Embossing and Labelling

Identify your bins with your municipal coat of arms or logo. You can also give durable information about the refuse collection service to the residents with regards to side loading vehicles or other important regulations. The bins can also be identified according to ownership (collection contractor, or municipal council). Important information can neither be torn off, as with the use of stickers, nor will it become unsightly after a long period of use.

Let the bin reflect your ideas. The embossable space is also excellent for advertising purposes!


There are no restrictions to the design, apart from the dimensions. We would be glad to advise and help you to develop your ideas and requirements with regards to the artwork.

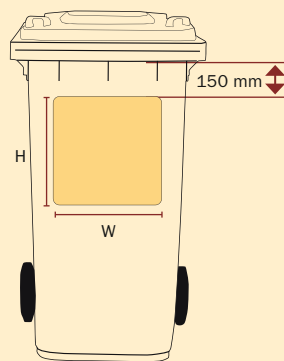
Advantages

long service life · clear identification · low cost · individuality

Body embossing

Dimensions for body embossing	Width (W)	Height (H)
GMT 60/80 litres	250	200
GMT 120 litres	250	250
GMT 140 litres	250	250
GMT 240 litres	230	300
GMT 360 litres	250	300

 = defined embossable space



body embossing machine

Examples: body embossing



Labelling

We can also professionally attach labels to bins with warning signs or additional information in accordance with your requests.

Discuss your ideas with us!



Examples: lid embossing

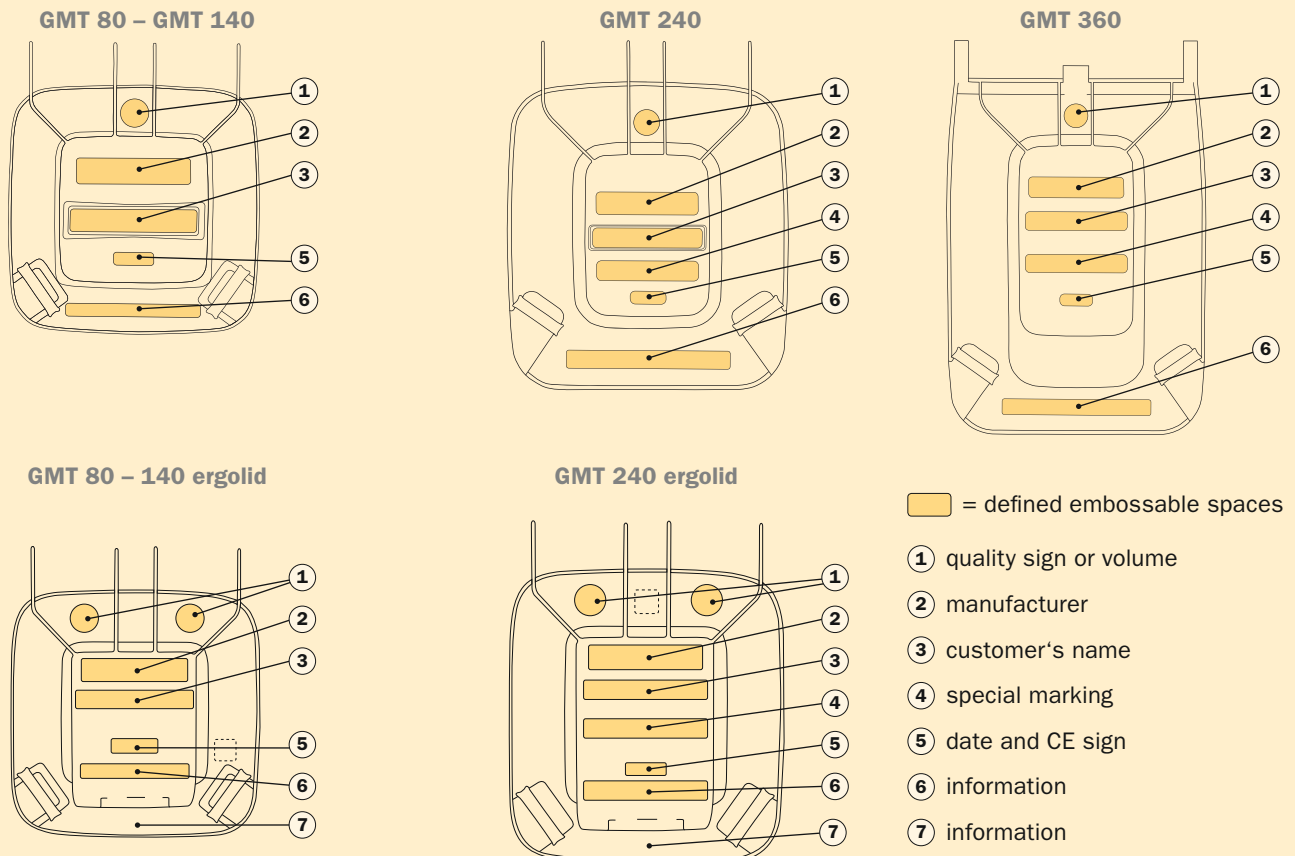


ergolid lid with inscription



lid embossing machine

Lid embossing



the defined spaces for written information can also be printed with a moulded imprint as well as a hot die stamp

Locking Systems

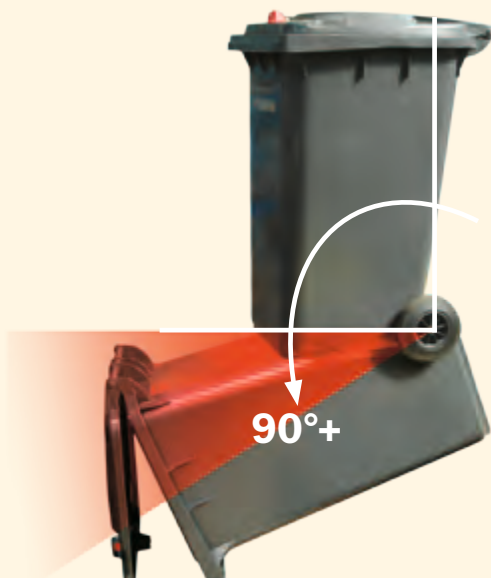


Gravity lock for bin lids

The collection of waste in other people's bins has already happened to many people. Who likes paying for other people's waste? Today, many residents already secure their bins by using heavy chains and padlocks in order to prevent other people's rubbish ending up in their bins. However, this way of securing bins is more than complicated since the locks have to be removed every time the bin is due to be emptied and re-attached afterwards. Not to mention the effort necessary every time you wish to fill the bin.

A simple and sensible locking system puts things right – it keeps the bin closed for neighbours and passersby.

The refuse bin is opened and locked conveniently by a personal key. When the bin is emptied, the refuse vehicle automatically unlocks the bin by tipping it over the hopper. When the bin is subsequently replaced on the ground the lid is automatically relocked.



Advantages

Functional:

There is no interference with the bin emptying process. When the bin is tipped over more than 90°, the lid unlocks automatically and locks again when the bin is put down. This is another example of the practical efficiency of the operation of this lock.

Secure:

The lock cylinders are designed to offer 200 different locking variations. Even if your neighbour has got the same locking system his key will almost certainly not fit your lock. Houses which are divided into flats can be given several bins all with identical locks and keys.

Without risk:

Nothing can happen. From the inside of the bin the lock can be opened quite easily without any key – just in case a child is hiding in there.

Retro-fittable:

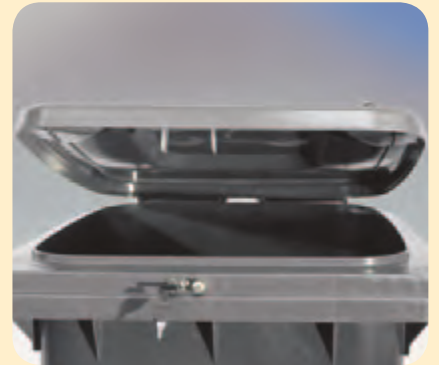
This lock fits all bins from 60 to 360 litres. Drill the holes by using the drilling template and it is done! On request, every owner can get detailed and easy to understand mounting instructions together with a template.



triangular lock
lock case on lid,
locking hook on body



triangular lock, "SKP" type
lock case on body,
locking hook on lid



automatic lock



sliding lock
for padlocks



Lock without gravity function



lock with z-shaped
steel tongue



Snap hook

A suitable lock for every operational purpose

The choice of different locking systems is large. SSI SCHÄFER has developed and adapted many well-tried locking systems for the different types of bins. One simple locking system can already prevent the misuse of your bins.

Ask for advice.



Product overview

4 wheeled containers / large refuse containers (MGB) and Modultainer

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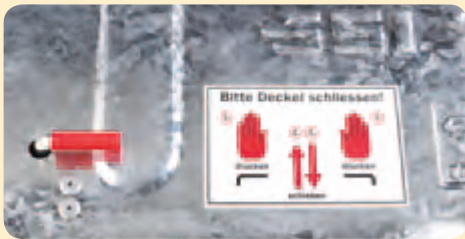
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Container sizes



▲ MGB 770 litre with narrow depth – 820 mm

Safety lid



▲ ergonomically positioned release knobs provide child safe use. This child safety device is obligatory inside the EU.

quality equipment



▲ parking brake for central locking device

Large refuse containers MGB



MGB 1,100 l

Large refuse container MGB in steel with dome lid, 770 and 1,100 litre

Millions of the large refuse containers are in use. Made in accordance with the dimensions of the European Standard DIN EN 840, these containers conform to the legal requirements demanded by the waste industry.

The large refuse container is suitable for the collection and disposal of residual waste from multi-occupied dwellings, trade and industry. Outstanding strength and operational reliability through solid workmanship. Standard specification with foot brakes in accordance with EN 840. Central wheel locking device instead of foot brakes available on request.

Simply safe – extremely simple

In order to make the 770 and 1,100 litre containers safer and to reduce the risk of injury to the user, the containers were fitted with an additional child safety device. This child safety device is obligatory in all EU countries according to the European Standard DIN EN 840. It consists of 2 strong retaining hooks on the body, one doubly reinforced steel shaft and 2 signal red release knobs on the front section of the sliding lid.

MGB advantages

fitted with patented child safety device as standard in accordance with DIN EN 840 for all EU countries

low empty weight

high strength due to structurally analysed swaging

guaranteed long term reliability

very long service life, made of hot-dip galvanised sheet steel

compatible with all common standardised lifting devices fitted to vehicles and compactors

safe when used in locations of high fire risk such as workshops and industrial plants

many optional extras available for individual applications

Safety attachment



Safety disc on the lifting lug enhances the safety on the tipping mechanism

Wheel variations



optional swivel wheel with sheet steel centre



optional polyamide swivel wheel with foot brake



optional heavy duty swivel wheel with foot brake



optional heavy duty swivel wheel VW type with foot brake

Hands free for waste



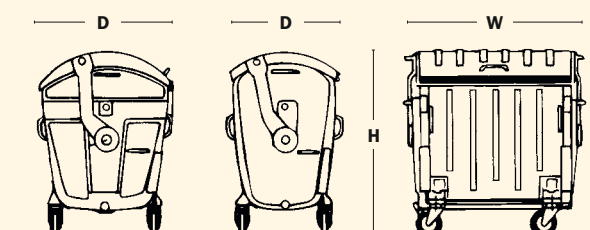
Easy filling by means of the optional **foot pedal lid opener**



▲ **triangular lock** for dome lid

MGB with dome lid	770 l	1,100 l
Width mm (W)	1,370 ± 10	1,370 ± 10
Depth mm (D)	820 max	1,115 max
Height mm (H)	1,425 max	1,470 max
Nominal volume l	770 ± 5%	1,100 ± 5%
Payload kg	308	440
Wheel-Ø mm	200	200

Towing attachment and ... all dimensions are nominal in accord. with DIN EN 840



MGB 1,100 l

MGB 770 l

Insertion apertures



- ▲ Insertion aperture with rubber rosette for bottles / glass



- ▲ Brush aperture for bottles / glass



- ▲ Brush aperture for light packaging material



- ▲ Insertion slot for paper



- ▲ Hooded insertion slot for paper

Large refuse containers MGB



Insertion apertures for 770 & 1,100 litre steel MGB with dome lid

These containers are used for the collection of waste and recyclable material.

The identification of the contents is achieved by colour-coded lids and information stickers. The lids can be fitted with special apertures according to the recyclable material to be collected.



The MGB 1100 KD large refuse container is based on the standard design in accordance with DIN EN 840 with wheel brake. As a safety feature on the MGB 1100 KD the new combination lid gives additional child safety. An additional advantage is the easier handling when filling the container.

- ▲ **MGB 1100 KD** for the collection of recyclable material with insert slot for light packaging material or paper.

Special MGB variations

Organisational structures in industry and trade vary widely. Thus, the disposal of waste also has to be organized differently. The varied range of SSI SCHÄFER containers offers you individual solutions for the economic collection of various waste fractions. The emptying can be done by common lifting & tipping devices suitable for trunnions or comb bars.

It is particularly important in businesses to coordinate sensibly the different waste fractions and the locations where they are generated. The SSI SCHÄFER container system is well suited to this requirement.

Special versions of SSI SCHÄFER containers, with a variety of accessories, help you to cope with everyday waste management requirements.

Special version in use ▶



Special version and accessories

▼ Special MGB variations for individual applications



▲ Towing attachment and...



▲ ...towbar on the narrow sides



▲ fork lift pockets



▲ View of the trailer coupling and shaft from underneath. Towing forces are directly transferred



▲ towbar on the long side

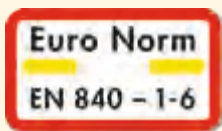
Quality equipment



- ▲ parking brake for central locking



- ▲ Lid variations in steel and combined with plastic



Modultainer® M



Modultainer® 1.100 l

Modultainer® in steel with flat lid in plastic, 770 and 1,100 litre

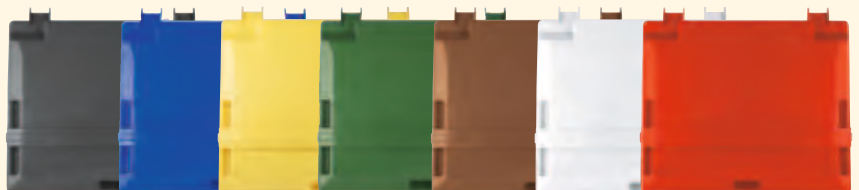
The Modultainer is the ideal partner in all areas of waste disposal and the collection of recyclable material. The combination of large capacity, easy handling and the possibility of various optional extras make this a multiple-use container.

Outstanding strength and safe operation due to solid quality workmanship provide trouble-free use over many years. Its characteristic features are the galvanised steel body and the user-friendly flat plastic lid.



- ▲ foot pedal lid opener for easy filling

Lid colours



- ▲ The lid colour of the container indicates the recyclable material to be put in the container. These are standard colours – other colours on request.

*Colours similar to illustration

Modultainer® advantages

- high loading capacity through robust construction
- long service life and corrosion protection by hot-dip galvanised steel
- made in compliance with DIN EN 840-2
- low empty weight
- compatible with all common standardised lifting devices
- no child safety device necessary
- easy to exchange plastic lids
- optional foot pedal lid opener
- solid, manoeuvrable wheels with wheel brakes
- stackable by means of tapered shape
- optional locking systems available
- many optional extras available for individual applications



The 770 litre Modultainer version can be used individually

Stackable container

A big advantage is the small space needed in transport. Up to 5 containers fit easily into each other when transported because of their tapered shape. The result is significant cost savings when the containers are transported over long distances.

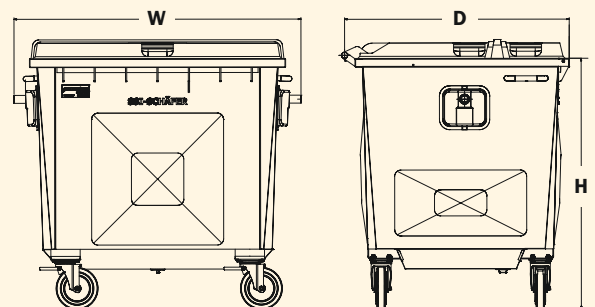


Safety attachment



Safety disc on the lifting lugs enhances the safety on the tipping mechanism

Modultainer®	770 l	1.100 l
Width mm (W)	1.370 ± 10	1.370 ± 10
Depth mm (D)	800 max	1.115 max
Height mm (H)	1.370 max	1.470 max
Nominal volume l	770 ± 5%	1.100 ± 5%
Payload kg	308	440
Wheel-Ø mm	200	200



alle angegebenen Maße sind Nennmaße gemäß DIN EN 840

Identification systems



Chip nest under the front rim for the fitting of an identification chip on all steel containers for the installation of an identification chip. Further information on [page 92](#)



▲ standard equipment is wheel stop, optional foot brake for central locking

Side discs on the end of the lifting lugs offer increased safety on the tipping mechanism ▼



Paper insertion aperture for an MGB with flat lid and gravity lock ▼



MGB in plastic with flat lid



MGB 1.100 I

Large refuse container MGB in plastic with flat lid, 660 / 770 / 1,100 litre

Large capacity and easy handling – this combination is offered by the 4-wheeled containers from SSI SCHÄFER together with a wide range of fittings for use in refuse and recyclable material collection.

The outstanding product quality is a particular feature of the SSI SCHÄFER plastic collection containers. The strong and practical construction, high quality materials and careful workmanship provide trouble-free use over many years as well as high structural stress resistance.

These SSI SCHÄFER containers are resistant to corrosion, frost, heat and chemicals and, through a special UV stabilisation, to ageing. The range of SSI SCHÄFER containers MGB 660 / MGB 770 / MGB 1,100 comply with the European Standard DIN EN 840-2 / 840-5 / 840-6 and furthermore meet the requirements of the Quality Guidelines for waste and recycling containers.

Container colours



*Colours are similar to those illustrated. Some colour deviation is possible

MGB advantages

made by compact injection moulding with High Density Polyethylene (HDPE) in accordance with DIN EN 840

wheels: solid rubber tyres, individual swivel wheels of 200 mm diameter

ergonomically fitted handles for comfortable handling

individual markings by hot die stamp or injection moulding possible

compatible with all common standardised vehicle mounted lifting devices made in conformity to EU guidelines

prepared for the fitting of chips for identification and weighing with water drain hole

different lid variations for the collection of recyclable material

extensive range of accessories can be found in our accessories catalogue

Wheel options



optional polyamide swivel wheel with wheel stop



optional swivel wheel with steel rim and roller bearing



Gravity lock – further locking systems on page 50 and 65

Foot pedal lid opener as an optional extra for easier filling



MGB in plastic with flat lid	660 l	770 l	1.100 l
Width mm (W)	1.370 ± 10	1.370 ± 10	1.370 ± 10
Depth mm (D)	780 max	800 max	1.115 max
Height mm (H)	1.250 max	1.370 max	1.470 max
Nominal volume l	660 ± 5%	770 ± 5%	1.100 ± 5%
Payload kg	264	308	440
Wheel-Ø mm	200	200	200

all dimensions are nominal in accord. with DIN EN 840

MGB Plastic



▲ combination lid, convenient to use, full safety operation, in accordance with DIN EN 840, light and exchangeable lid front and back



▲ gravity lock lid, convenient to use, provides for safety-related operation in accordance with DIN EN 840-6



MGB 1.100 I

Large refuse container MGB in plastic with dome lid 1,100 litre

The MGB 1,100 litre containers in their various versions are the ideal equipment for all areas of refuse and recycling material collection. The containers are available with the classic dome lid, the patented combination lid as well as versions with the gravity lock.

The combination of large volume, convenient handling and the possibilities of different versions makes these containers extremely versatile. The containers are equipped as standard both for side trunnion and comb lifting systems.

Outstanding product quality is a special feature of the SSI SCHÄFER plastic containers. Through strong and practical construction and careful workmanship we provide problem-free service over many years. The containers are corrosion free, weather resistant and, due to special UV stabilisation, especially resistant to ageing. SSI SCHÄFER containers conform to the European Standard EN 840-3 / 840-5 / 840-6 and, over and above that, the requirements of the AWB quality standards for waste and recycling containers.



▲ classic dome lid, full safety operation, easy handling

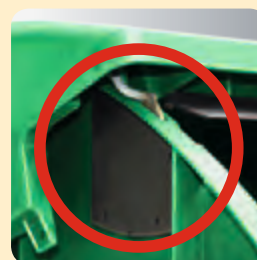
Child Safety



Safety opening of 180 mm, specified according to DIN EN 840



Safety spring



Gravity box



Retaining hook

The current child safety system on the MGB containers from SSI SCHÄFER, safety spring, gravity box and retaining hook gives the safety aperture of 180 mm as specified by the regulation authority.

MGB – Advantages

easy to use and safe in operation in accordance with DIN EN 840-6

full handgrips on all sides

safe and easy manoeuvrability, even when heavily loaded

wide lifting trunnions for increased safety in the mouth of the hopper even when unfavourably loaded

different wheel types for varying service requirements

compatible with weighing/identification systems

the dome lid with special opening mechanism reduces wind scatter problems during the discharging operation

colour coding possibilities

automatic opening and closing of the lid during the discharging cycle

high safety factor due to the built-in child safety mechanism as protection against accidental closing of the lid

flexible application due to the extensive range of equipment

Wheel options



optional polyamide swivel wheel with wheel stop



optional swivel wheel with steel rim and slide bearing

Quality equipment



handles for better handling

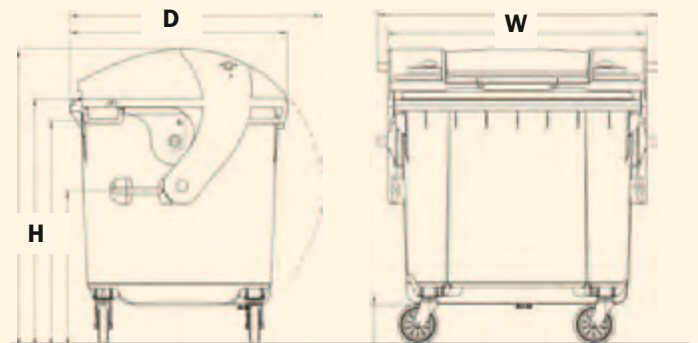


lifting trunnions for greater stability



Plastic MGB with dome lid	1.100 l
Width mm (W)	1.370 ± 10
Depth mm (D)	1.115 ± 130 max
Height mm (H)	1.470 max
Nominal volume l	1.100 ± 5%
Payload kg	440
Wheel-Ø mm	200

all dimensions are nominal in accord. with DIN EN 840



Container colours and classification

Residual refuse



black-grey

Glass

Brown glass



pale brown

Green glass



green

Clear glass



signal white

Waste paper



sky blue

Light packaging



rape yellow

MGB Accessories



▲ **Paper aperture**
with rain hood for dome lid



▶ **Combi lid**
MGB 1,100 l dome lid
Supplementary lid at the rear

Glass aperture
MGB 1,100 l
Dome lid
Ø 150 mm



Apertures and accessories for plastic MGB 660 to 1,100 litre

The large refuse containers MGB 660 to 1,100 litre are also available in various designs and versions for the collection and separation of recyclable materials.

Information stickers or inscriptions complete the picture for a practical and forward looking collection of recyclable materials with the large refuse containers from SSI SCHÄFER.

Apertures for flat lids



Glass aperture
MGB 1,100 l
Flat lid
Ø 150 mm with surround



Paper aperture
MGB 660 - 1,100 l
Flat lid
Aperture with rain hood



Glass aperture
MGB 660 - 1,100 l
Flat lid
Ø 150 mm with surround



Packaging aperture
MGB 1,100 l
Flat lid
Rectangular aperture with brush and surround



Glass aperture
MGB 660 - 1,100 l
Flat lid
Ø 200 mm



Packaging aperture
MGB 660 - 770 l
Flat lid
Rectangular aperture with brush and surround

Labelling

Put the crest or coat of arms of your town or any other concise recognition symbol on your containers. You can also give important information to your residents by this permanent method, such as advice for positioning the bin for kerbside side loading operation or other important requirements for the refuse collection. The containers are, therefore, clearly marked as belonging to your community and important pieces of information remain readable after a long service life. They maintain a uniformly good appearance, which additionally increases the acceptance by the residents.



▲ examples of **body hot die stamps** for municipalities and private contractors

Discharging and transport aids



▲ **Pockets** for forklift trucks



Towing attachment



▲ **Towing bracket** and ...



▲ ... **tow bar** on the front

Locking options



▲ **Gravity lock**
for MGB with flat lid



▲ **Gravity lock**
for MGB with dome lid



▲ **Padlock** for MGB with flat lid



▲ **Padlock** for MGB with flat lid



▲ **Padlock** for MGB with dome lid – standard



▲ **Triangular key lock** for MGB – flat lid





Product Overview

Grumbach Depot Container System

Contents

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Depot container – Standard and the economics
Depot container and noise reduction
Depot container – versions and apertures
Depot Container for Electronic Scrap
Underground System

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Range for industrial /commercial refuse, special containers
Range of services available from SSI SCHÄFER
Identification systems
Business areas of SSI SCHÄFER
SSI SCHÄFER – worldwide

Depot Container



▲ Depot container for the central collection of recyclable material



DIN
EN 13071

Depot container for the central collection of scrap glass, waste paper, light packaging material, textiles and electronic scrap

To be recommended in every respect. The Grumbach Depot Container System, which has been tried and tested over many years, is ideally suited for the collection of waste paper, scrap glass, light packaging and textiles from central sites. Its merits are highly convincing from aesthetic, functional and economic aspects.

The 1.6 m³, 3.2 m³ and 5 m³ depot containers have proved themselves as a collection system for large quantities of recyclable material.

Practical and adaptable. Each container is part of the same basic modular system, which can always be quickly converted from one version to another. Existing input apertures are easily exchangeable with minimal time and expense – e. g. the glass aperture for a paper aperture. The aperture inserts are fully compatible and are easy to fit with the simple use of only two screws. In addition all the depot containers can be divided into two or three separate chambers by means of dividing walls, so that up to three different types of recyclable material can be simultaneously collected in one container.

The Grumbach System is an effective discharging mechanism with additional noise reduction in the emptying process. The crane loading system operates safely and effectively. The operation is carried out by one person only – the vehicle driver.

During the discharging operation of the container the maximum depth of reach to the floor of the collection vehicle is achieved by the unique opening mechanism of the container, so that the contents fall into the vehicle from the lowest possible height. For waste paper this has the advantage that the material is not blown away by the wind and, for scrap glass, breaking of the glass is avoided to the greatest possible extent and additional noise reduction is achieved. Because of this maximum possible noise reduction the complete system is ideally suited to a two shift operation.



◀ Grumbach System standard opening device

Combination opening device for operation with the Grumbach System and "Two Hook" System containers ▶



Practical Operation Confirms:

Mr. Reiner Vobl, Managing Director of the firm Vobl Waste Management in the Limburg-Weilburg region states:

More than 20 years ago we won the contract to collect scrap glass in depot containers in the Limburg-Weilburg council area. To enable us to decide on the right depot container system, we investigated all the available systems on the market and chose the Grumbach System from SSI SCHÄFER.



▲ Depot container in the multi-chamber version, here green and brown glass

The following were important criteria for us:

- Containers made from galvanised sheet steel and, therefore, long lasting
- safe and fast discharging due to the unique emptying system

Today, we know how right that decision was, since we still have many of the containers, which were purchased 20 years ago, in daily service. The containers are still looking very good and are functioning as reliably as ever.

The long life of the containers has put us in the position to win the last tender for the glass collection in the council's area against the most strenuous competition.



Collection of waste paper



Collection of glass



Collection of light packaging



Collection of electronic scrap

Advantages, which prove themselves

66% productivity increase with the use of the Grumbach Depot Container System from SSI SCHÄFER compared to other depot containers!!

According to an independent assessment in Switzerland this means that:

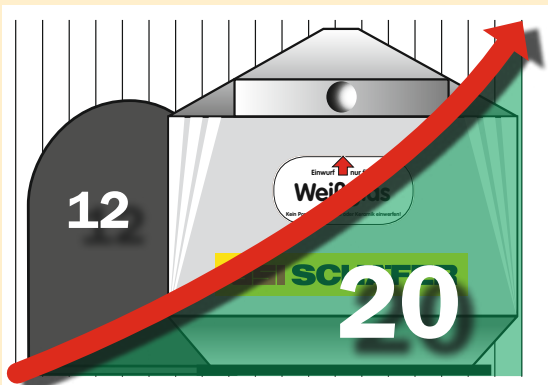
≈ **66% productivity increase** = **20 Depot containers from SSI SCHÄFER can be emptied compared to**
 = **12 Depot containers of systems from other producers (per hour without travelling and non-productive times)**

The productivity of **5 collection vehicles using conventional systems can be achieved with 4 vehicles with SSI SCHÄFER system**

Effective and safe service is carried out with one operator.

Advantages, which you can calculate yourself. Change to the SSI SCHÄFER system now.

≈ 66% Productivity increase



20 SSI SCHÄFER depot containers can be emptied within 1 hour compared to 12 standard depot containers which means 66% more efficiency

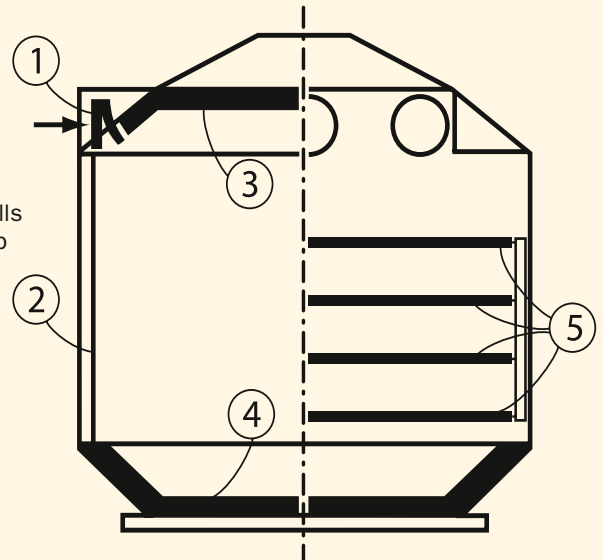
The conclusion is

- faster
- safer
- easier
- more cost-effective

Depot Container Noise reduction



1. elastic aperture flaps in rubber
2. foam covering of the walls
3. insulating mat at the top
4. insulating material at the bottom
5. plastic covered "breakfalls"



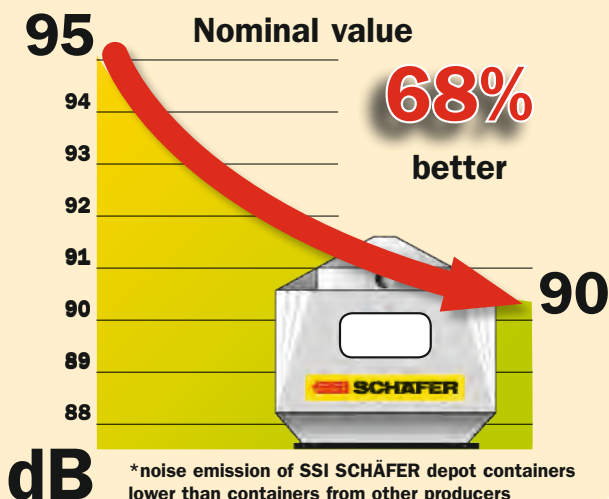
Noise reduction of the depot container for glass

We are better than the standard

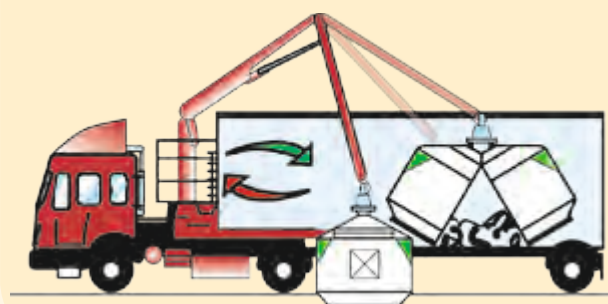
The European noise protection regulation EU 2000/14 also covers recycling collections. The filling, as well as the emptying, of central depot containers is only permissible between the hours of 7.00 a.m. and 8.00 p.m. We had already included the requirements of the noise reduced recycling collection in advance of the regulations.

In addition to the standard designs, noise reduced versions of the SSI SCHÄFER depot containers were included in the course of the development of noise reduced refuse collection systems. Noise reduction for used glass collections was achieved by covering the walls of the container with Polyurethane foam, by placing insulating mats inside the top and bottom of the containers, and fitting the containers with elastic aperture flaps as well as plastic coated "break fall" chains.

The *test report of the sound technology department of the BeSB GmbH Berlin confirms that the emission values for the insertion of glass bottles are even lower than the noise limits stipulated for Class 1 by the Federal Department of the Environment. The Department of the Environment grades this system as "lacking noise".



The effective action of the crane loading mechanism on the collection vehicle guarantees additional noise reduction during the discharging operation. This system achieves a maximum low level reach of the container, and this results in a quiet discharge of the container close to the floor of the vehicle. The effect of this efficient noise reduction is that the complete system is ideally suited to a 2 shift operation. This gives the cost of the system a short pay back period.



Depot Container – Flexible



The Collection Container for Electronic Scrap – Small Appliances

We have further developed our Grumbach Depot Container System for the collection of waste paper, scrap glass, light packaging material and textiles which has been tried and tested for decades with a further variant.

This variant of the Depot Container is ideal for the servicing, over an extensive area, for the separate collection of small scrap electronic appliances. The emptying of the container can be carried out with the same vehicle and by the same method as paper and glass. The containers can be emptied at each single recycling site during the normal collection round of the crane vehicle into a 30 or 40 m³ skip, which is then taken to the transfer station and the disposal company informed for removal.

The scrap appliances are separated into 5 categories, and sorted into specialist types. There is a danger that the householders may, for convenience, dispose of the small appliances with the residual waste, if sufficient containers are not sited within a convenient distance.

Experience with other collection fractions, e.g. paper, glass and light packaging material, demonstrates a high level of acceptance when there are sufficient collection points within a convenient distance.



Recycling site at central collection point

- Fulfilling the statutory requirement by central collection point (transfer station)
- Cleanly sorted collection
- Controlled input
- Secure area



Complete collection sites at single or large shopping precincts

- User friendly
- Sales promoting
- Short distances



Extension of the existing collection system

- Acceptance due to familiarity with the existing system
- Close to the residents
- High collection rate



Depot Container – Advantages

extremely cost-effective, quick and easy discharging with one man operation with the reliable Grumbach System

exceptionally strong and long lasting container. SSI SCHÄFER depot containers have been in continuous operation since 1984. "Made in Germany" quality – produced in steel, fully galvanised, with optional additional paint finish

sloping walls next to the ground

colour coded corners and information stickers to identify the recyclable material

automatically closing flaps in the apertures protect against the development of fire and water ingress

easy conversion, e. g. from a glass to a paper container or from a single-chamber to a multi-chamber container (also "old containers" easily re-equipped)

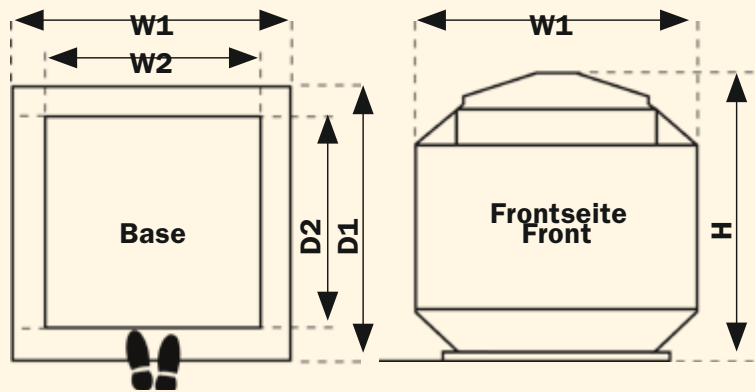
additional sound reduction through the optimal low reach of the crane when the container is discharged

special versions for oversize and bulky packaging waste: single-chamber paper container with large aperture

- ▲ easy discharge with a one man crew – an advantage of the depot container
- ▼ apertures for glass



- ▲ apertures for paper



Colour Coding

Waste paper Textiles Electronic scrap Light packaging



Brown glass Green glass Clear glass



Depot container	1.6 m ³	3.2 m ³	5 m ³
Width mm (W1/W2)	900/730	1,500/1,200	1,850/1,575
Depth mm (D1/D2)	1,500/1,225	1,500/1,200	1,850/1,575
Height mm (H)	1,513	1,665	1,665
Paper aperture	310 x 90	1,000 x 90	1,300 x 90
Nominal capacity m ³	1.6	3.2	5.0

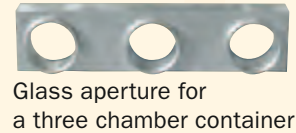
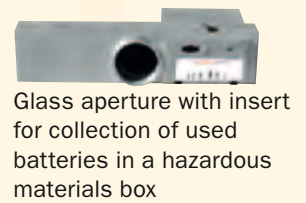
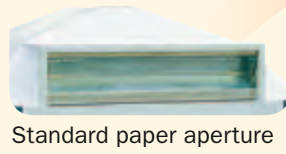
all dimensions are approximate

Depot Container – different versions

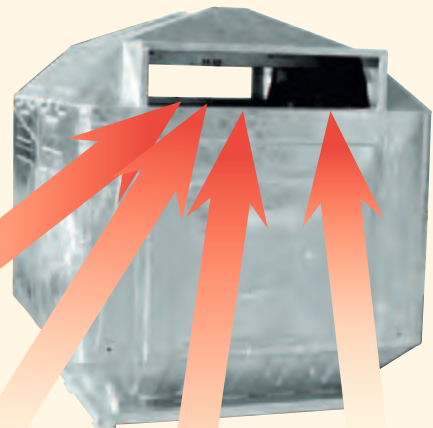
One for everything – Everything in one

The flexibility of the depot container is clearly shown by the different apertures. For a very small cost and little work the container can be modified and used for the collection of other materials. A variety of apertures and chamber walls facilitate the collection of different recyclable material fractions.

Quick and easy conversion



Depot container – basic version for a quick conversion



Three sizes – for all different materials
1.6 m³, 3.2 m³ and 5 m³



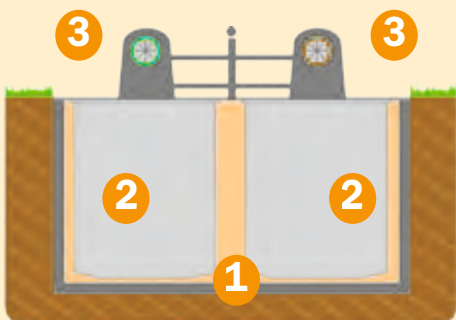
Stickers – to label your depot containers for the various recycling materials



Underground System

Underground System – Grumbach System
The noise remains under the ground

With the underground version of the depot container system the container vanishes into the ground saving space and noise. The input shafts remain visible above ground and harmonise with the urban or rural landscape. Due to the low input height, this system is easy to use, both for children and wheelchair users.



- 1 Steel outer base container
- 2 Collection container
- 3 Above ground input shafts



reliable system

The underground system consists of three basic components:

the steel outer base container with options of 2, 3 or 4 collection containers with capacities of 3 m³ to 5 m³, which are installed inside the outer container and the above ground components with input shafts for glass, paper, plastic and other recyclable materials.

easy emptying

The emptying of the container is also extremely easy. For this the input shaft is first easily opened and the container is then lifted up by means of a crane. In order to avoid the risk of accidents, a safety grill automatically swings over the top of the outer base container and safely covers up the opening. The container is lifted by the crane into the loading bay of the vehicle and emptied by the reliable Grumbach System with a one person crew.



Product Overview

Collection Containers for
Commercial Refuse Collection – Specialist Containers

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◀ Front loading 5.0 m³ container in service



Front loading FBR 5.0 m³ with ▲ side lifting pockets

Front Loading System

Front loading containers F 1.75 - 8.0 m³

The front loading container is the modern and cost-effective solution for the collection of large quantities of refuse. The particular cost-effectiveness lies in the capability of emptying the container with a one man crew.

Standard version

- body in galvanised sheet steel
- 2 plastic lids (3657, anthracite)
- with side lifting pockets
- with standing blocks
- prepared for fixed or swivel wheels
- prepared for locking frame
- lifting eyes

Special equipment

- lid locking frame for triangular lock
- lid locking frame for padlock
- lid held in open position
- wheels consisting of 2 fixed and 2 swivel wheels
- skip version with 4 lifting trunnions
- steel lid with paper aperture
- additional information signs
- Lifting spigots in accordance with DIN 30737

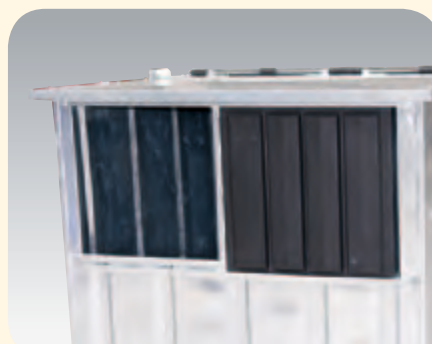
Front loader sizes

Lieferbare Größen mit Tascheninnenmaßen
1.600, 1.720 und 1.820 mm

▶ 1,1 m ³	▶ 5,0 m ³
▶ 1,75 m ³	▶ 6,0 m ³
▶ 2,5 m ³	▶ 6,5 m ³
▶ 3,0 m ³	▶ 7,5 m ³
▶ 4,5 m ³	▶ 8,0 m ³

additional special versions and sizes on request

▶ Frontlader F 7,5 m³ mit heckseitigem Einwurf für eine optimale Befüllung des Behälters



Front Loading Container – Advantages

- cost-effective and efficient collection with one-man crew
- cost minimisation with forward looking technology
- ideal for use in both the private and public sector
- long service life – body made from galvanised steel, lid from plastic, all side walls vertically tapered
- excellent strength and safety in use due to robust workmanship, maintenance and distortion free
- additional body strength due to box section around the top of the container
- pockets on both sides of the container for the forks of the lifting gear, solidly welded
- guides on the side pockets for easy insertion of the vehicle forks
- very small stock requirement of the plastic lids F 1.75 - F 8.0 due to easy exchangeability
- user-friendly and safe due to the low loading height and the light lid operation

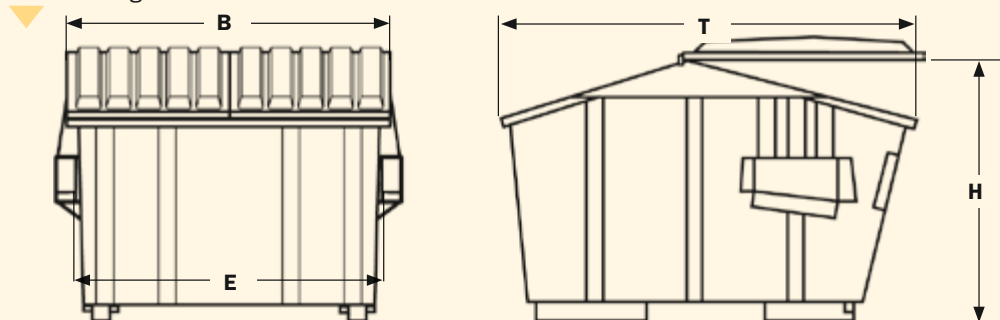


▲ Front loading containers are suitable for central collection in urban areas or for internal sites



▲ Wheels

Front and side view of the front loading container



▲ Lifting spigots in accordance with DIN 30737

Front loading containers	F 1,75	F 2,5	F 3,0	F 4,5	F 5,0	F 6,0	F 6,5	F 7,5	F 8,0
Height mm (H)	1.175	1.570	1.570	1.620	1.620	1.750	1.750	1.870	1.980
Breite mm (B)	1.830	1.830	1.830	1.830	1.830	1.830	1.830	1.830	1.830
Width mm (W)	1.120	1.340	1.605	2.317	2.515	2.500	2.770	2.930	3.450
Nominal volume m ³	1.75	2.5	3.0	4.5	5.0	6.0	6.5	7.5	8.0
Nominal Payload kg	437,5	625	750	1.125	1.250	1.500	1.625	1.875	2.000
Pocket internal dimensions mm (E)	1.600/1.720/1.820								

all dimensions are approximate



Front Loader System



▲ Lids are available in 6 different colours. Special colours available on request



▲ Front loader F 5.0 m³



▲ Front loader F 7.5 m³

▼ Lid securing bar complete with lid lock

▼ Lid locking bracket for padlock

▼ Lid locking bracket for triangular lock

▼ ergonomic due to the low filling height





Practical operation

The Bördner Städtereinigung GmbH (Bördner Town Cleansing Company) is a collection and service company in Limburg on the Lahn. This medium sized company works closely with its customers to create individual solutions for the handling of virtually all types of refuse and recyclable material.

The firm of Hufnagel has chosen the Front Loader System from SSI Schäfer for the collection of residual refuse, folios and paper.

“We have intensively tested the various collection containers on the market. We were easily convinced of the quality of the products which fulfilled all our requirements” recalls Marc Hufnagel, Managing Director of Hufnagel Service GmbH. “The Front Loader Container is exceedingly user-friendly, flexible and suitable for all operational requirements – which was particularly important for us. The filling of the container was also very simple for our customers, due to the low loading height, and it was also very quick for us to empty”.

In excess of 50 containers are emptied by us per trip. It must correspondingly work quickly and safely and, in addition, the Front Loader must stand up to the daily operational stresses and strains – and it does just that” explains Marc Hufnagel. During the emptying process the container is easily lifted over the drivers cab and then emptied into the load space behind. A packer plate then pushes the refuse back into the truck and compacts it. “The collection with a one-man crew is a further deciding factor which makes an economic and forward-looking operation”.

In SSI Schäfer we have found a German supplier who produces a product which is ideal for us. We are absolutely delighted with the collection containers”, summarises Frank Bördner.

▼ Frontladerbehälter F 2,5 m³



▼ Frontladerbehälter F 7,5 m³ im Einsatz



▲ Managing Director
Frank Bördner

Dischargeable Container System



▲ Dischargeable 5.0 m³ container with steel lid

Quality in the Detail

excellent stability and safety in use due to robust workmanship, maintenance and distortion free

rubber tyred heavy duty swivel wheels with foot brakes

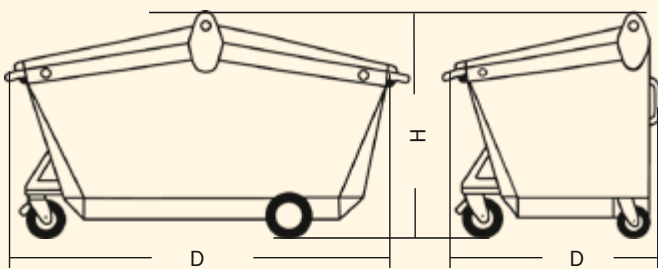
reinforcing frame round the body

lid fixing with a continuous strong tubular axle

additional reinforcement on the base

strengthening steel sheets in the wheel assembly area

▼ Dischargeable U 2.5 m³ container with plastic lid



Dischargeable container 5.0 m³ / 7.0 m³

Dischargeable container 2.5 m³ / 3.0 m³

Dischargeable containers U 2.5 / 3.0 / 5.0 / 7.0 m³

Large quantities of refuse require a collection system which can accept large volumes. The U 2.5 / U 3.0 / U 5.0 and U 7.0 m³ dischargeable containers have proved themselves in practical use as a cost-effective collection system for large quantities of refuse.

This system brings important organisational and cost benefits with it, right to the place where large refuse volumes are produced. The emptying is carried out by means of a tipping device in accordance with DIN EN. The container is convenient to fill because of its low loading height and its self-retaining lid. Large capacity and easy handling up to the emptying device demonstrate the cost-effective operation of this mobile collection system.

Depending on the material fraction to be collected, these containers are available with the option of two, or alternatively, four lids made from aluminium, sheet steel or plastic.

For the collection and separation of recyclable materials these containers are also available with coloured lids, input apertures, lattice sides and information stickers.

Dischargeable Containers	U 2,5 m ³	U 3,0 m ³	U 5,0 m ³	U 7,0 m ³
Width mm (W)	2.250	2.250	2.250	2.250
Depth mm (D)	1.360	1.780	2.500	3.050
Height mm (H)	1.480	1.480	1.480	1.630
Nominal vol. m ³	2,5 m ³	3,0 m ³	5,0 m ³	7,0 m ³
Nominal Payload kg	625	750	1.250	1.750
Load. height mm	1.100	1.100	1.100	1.100
Wheel-Ø mm	200/250	200/250	250/300	250/300

all dimensions are approximate



Oleocont®

Oleocont 200 / 240 litre – for Oil Soaked Workshop Material

The Oleocont is a special container for the collection and storage of oily wastes. It is used in workshops, filling stations and other commercial / industrial workshops. The container handles like a standard refuse container. It fulfils the fire prevention regulations and provides cleanliness and safety.

In the GGVS* version (optional), the container conforms to the requirement for the transport and storage of solid and dangerous goods according to the GGVS Classification.

Oleocont®	200 l	240 l
Height mm (H)	1,090	1,195
Width mm (W)	587	587
Depth mm (D)	723	723
Payload kg	190	225

all dimensions are approximate

*GGVS – Regulation for the transportation of dangerous goods

Quality equipment



optional sealing lock



optional drain nozzle

The advantages:

made from galvanised sheet steel, thus non combustible

pick-up bar for lifting device in accordance with DIN EN 840

The lid can be completely folded down to facilitate efficient filling and emptying of the container

isolation of the lid and body by means of rubber plugs, thus preventing sparks

optional: GGVS conformity with two sealing locks and PE inlet

optional: adaptation of old containers to GGVS conformity

optional: oil collection screen and discharge nozzle

GMT 240 Steel

Galvanised GMT 240 for the collection of refuse in high fire risk locations

Useful capacity, high strength, easy handling, robust and long service life are distinguishing features of this container. This is the right container for workshop areas where there is a high fire risk. Discharging is carried out by means of the standard lifting/emptying device in conformity with DIN EN. The GMT 240 container is made from galvanised sheet steel, which is non-combustible.

optional: containers with fork lift pockets for emptying at central collection points

optional: extra thick welding including the comb lift bar

GMT Steel	240 l
Height mm (H)	1,080
Width mm (W)	590
Depth mm (D)	730
Payload kg	ca. 225



Scrap Battery Collection

3 versions for every application

Scrap battery collection container LF 14/7



- ▲ The box for collection in shops and small businesses

practical small container for the retail business which takes back used batteries

strong plastic container with removable transparent lid and information stickers
contents: 7.5 litres

Scrap battery collection container



- ▲ Scrap battery collection container for collection in public buildings

collection container for schools, town halls and other public buildings – also useable in open areas

body made from steel, painted green

door lockable with triangular lock

with two apertures for button batteries and torch batteries, with internal separate plastic containers

GMT scrap battery collection container



- ▲ GMT 80/120/140 with battery apertures for collection in open public locations

well-proven refuse container with battery apertures

securely lockable with triangular lid lock

robust, suitable for all mobile requirements

ideal for all locations, inside and out

Hazardous Materials Box

for pre-sorting of hazardous materials

For the pre-sorting and collection of refuse containing hazardous substances in the home or business. These boxes provide child safe use and can be conveniently transported. By means of the practical lid, the container can be locked or even sealed.

The hazardous material box is available in various sizes from 11.5 to 87 litres – you can order through the SSI SCHÄFER main catalogue or see the full range at www.ssi-schaefer.de.

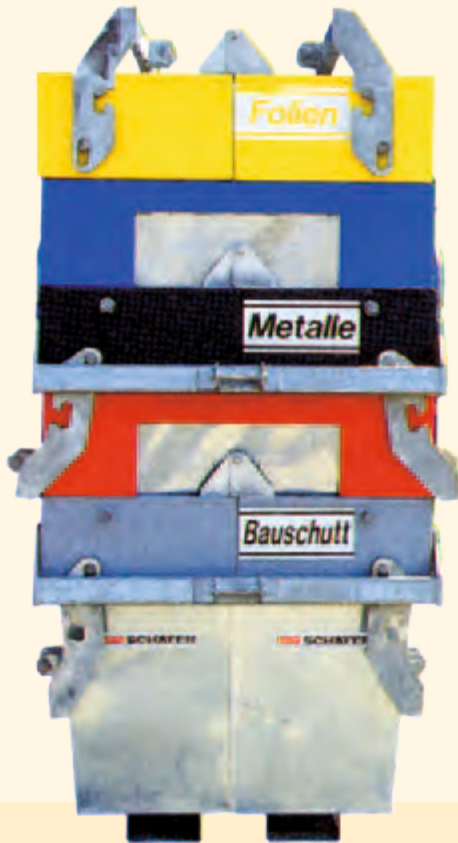


- ◀ Hinges of the hazardous materials box

Boxes for the pre-sorting of hazardous materials in the home or business ▶

- ◀ Lid clips of the hazardous materials box





▲ Transport by forklift truck – by means of standard size **pockets** mounted on the base

Multicont

The system for the collection of refuse and recyclable material from building sites

Different kinds of waste occur on building sites for demolition, renovation and new building. Modern waste management sorts the different waste fractions at the point of origin – that is the most cost-effective and cleanest method of separation. The Multicont System enables the waste and recyclable material to be sorted cleanly by efficient and cost-effective methods.

The small space requirement of the Multicont is especially advantageous for the renovation of old buildings. The containers can be moved about the building site using a crane or a forklift truck. Discharging is carried out by the well tried and tested Grumbach System.

The containers are welded from neatly bevelled and formed steel sheet and fully galvanised. The base and top are reinforced for extra strength, which guarantees maximum safety in use.

Multicont – advantages

an efficient system for the collection of building waste and other large refuse (e. g. electronic scrap)

small space requirement, especially relevant for the renovation of old buildings

transport on site by crane or fork lift

can be stacked inside each other 5 high

fitting of weighing equipment to the loading system possible – thereby fair apportionment of service costs

Discharging by means of the well tried and tested Grumbach System

robust construction from galvanised sheet steel, upper edge and pick up arms reinforced from 15 mm steel

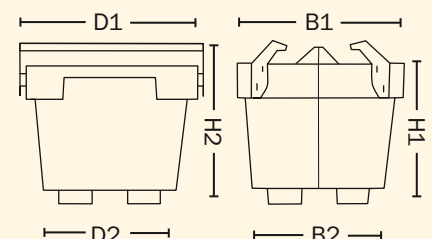
lockable lids available as an option

Easy loading and discharging with the Grumbach System ▼



Multicont	1.0 m ³
Width mm (W1/W2)	1,150/954
Depth mm (D1/D2)	1,150/954
Height mm (H1/H2)	1,082/1,290
Nominal volume l	1,000
Empty weight kg	ca. 210
Forklift pockets mm	100

all dimensions are approximate





Small refuse bins

Classic bins for traditional collection systems

Small refuse bins SME 35 / 50 and refuse bins SMT 70 / 110

The SSI SCHÄFER system for smaller refuse bins is made in accordance with the standards DIN 6628 and DIN 6629 respectively and has been used for decades in many communities and industrial factories. The SME containers are available in 35 and 50 litre sizes, the SMT in 70 and 110 litre sizes.

As an option, the containers can be fitted with a practical locking clip which also acts as a convenient carrying handle.

The containers are suitable for narrow locations, robust and can hold very heavy loads. The material, high quality HDPE, is proof against heavy stresses, UV stable, proof against aggressive chemicals to the greatest possible extent and weather proof. All sizes are available in the standard dark grey and green colours and other colours are available on request. Lid inscriptions and numbering can also be provided, if required.

quality equipment



▲ locking clip and ergonomic handhold for better handling

Description	SME 35 l	SME 50 l	SMT 70 l	SMT 110 l
Ø mm	445	445	563	563
Height mm	510	710	655	930
Empty weight kg	2.0	2.9	4.0	6.0
Nominal capacity l	35	50	70	110

all dimensions are approximate

One-trip container

ABV 35/60 litre



ABV containers – advantages

with the one-trip container there is no need for cleaning and disinfection

liquid proof closure due to the innovative lid and body design

safe throughout the whole waste process

ergonomically designed handles on the side make carrying and transportation easy

space saving stackability while in stock in the store

the containers can be stacked on top of each other after the lids have been closed

The SSI SCHÄFER one-trip container, the hygienic and economic solution

These one-trip containers are used for the disposal of contagious (infected) waste, body parts and organs from hospitals, veterinary clinics and other health care establishments.

A safe and strong container, which conforms to the UN requirements for the collection of clinical waste. Produced from chemically resistant Polyethylene, appropriate to the requirements of health care and environmental protection. The container ensures an environmentally friendly and energy efficient incineration.

The body of the container is conical, in order that the containers can be stacked inside each other when empty. Two hollow handles at the top of the container provide convenient handling.

The container lid has a built in handle, and it is so constructed that a firm closure is guaranteed after the container is only partly filled with the lid loosely closed. When the container is finally filled the closure is made liquid-tight for transportation by firm pressure on the lid.

▼ space saving stackability while in stock in the store



▼ easy and problem-free closure of the lid with audible engagement

ABV	ABV 35 I	ABV 60 I
Height mm	330	520
Depth mm	390	390
Width mm	390	390
Weight kg	1.2	1.8
Loaded weight max. kg	9.0	18.0
Nominal capacity l	30	60

all figures are approximate

Lid closure



Schuettomat

Schuettomat for GMT
80 to 360 litres and
MGB 0.66 to 1.1 m³

The Schuettomat is a practical machine for emptying small and large refuse bins (GMT 80 - 360 litres and MGB 0.66 - 1.1 m³) into a larger container. The refuse can be separately collected at the various sites inside the factory, be transferred to a larger container by the use of the Schuettomat and then be ready for collection. The appropriate lifter for factories with many different collection points and refuse types.



▲ The Schuettomat emptying a refuse bin into a large container



▲ The Schuettomat with a MGB 1,100 l

Further practical aids

Sweeping Trolley
RW 120 – 240 Litre

A practical aid for sweeping pavements, squares and yards. With this securing device, tools such as brushes and shovels become mobile. Fixed to the refuse container they are immediately ready to hand.

▼ Brush and shovel always ready to hand



Refuse sack holder
for GMT containers

For use with refuse sacks in GMT containers – secures the refuse sack and keeps the container clean



▲ Refuse sack holder

Refuse containers for public areas



▲ special version BAB-GMT with foot pedal

BAB-GMT 120 and 240 litres

Ideal refuse containers, which are well proven for refuse collection. The refuse containers offer visitors to motorways and service areas practical refuse collection by their easy handling. They are fixed firmly to the ground by means of a base plate and stand.

BAB-GMT – advantages

for greater volume, especially on car parks and motorways – the rational solution

firmly fixed to the ground with base plate and stand

the safety clamp is secured by a triangular key, special version available with foot pedal operated opening



50 litre litter bin

The litter bin is a very common fixture in many communities and an accepted feature of the street scene.

Litter bin – advantages



50 litre plastic litter bin conforming to DIN 30 712

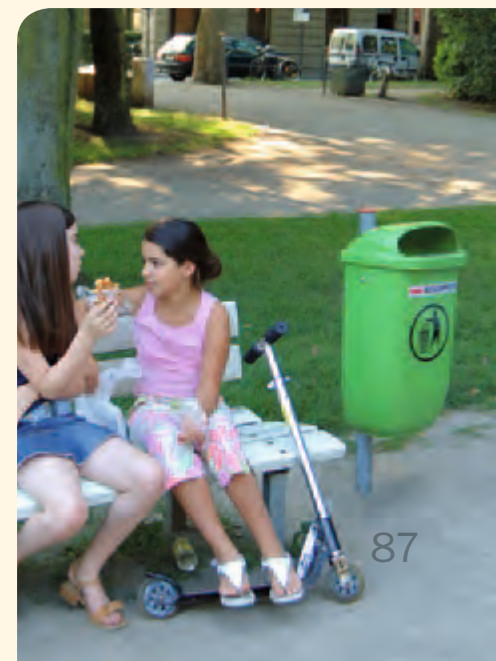
made from high quality, UV stabilised, low density Polyethylene

with fixing to mount on pylons, posts, walls and buildings (clamping band at additional price)

colours: orange and green, special colours on application

contents: 50 litres

easy to clean smooth surface



Recyclable materials collection systems



Advantages at a glance

removable upper part for the collection of large quantities of refuse

odour free due to self supporting swinging flap

can be used in industrial premises, shops, and in large public thoroughfares, can also be installed in covered outside areas

collection and separation are easily achieved by different colour coding of the containers or swinging flaps

easy to empty by means of removable top or from the front or top with an extractable inner container

strong and robust construction from high quality sheet steel

oil and liquid tight, fire proof

▲ Sheet steel insert for the recyclable material container

Recyclable materials collection system WS45 and WS76

Produced from electro galvanised high quality steel sheet. Subsequently powdercoated for long lasting protection of the surface. With insert of galvanised steel sheet. The upper part can be easily removed for emptying. Body, light grey, RAL 7035, the flaps colour powder coated for separation of the recyclable materials.

WS	45 l	76 l
Width mm (W)	323	382
Depth mm (D)	323	382
Height mm (H)	780	880
Nominal volume l	45	76



◀ Refuse container ABF 1648



▶ Refuse container ABF 648

Oil contaminated cleaning rag containers



Oil contaminated cleaning rag container PWK 644
self-closing swing lid for the prevention of explosion damage, with 2 hinged handles

Oil contaminated cleaning rag container PWK 67
with sloping lid with self-closing insert flap. Fire resistant and for the prevention of explosion damage



Pre-sorting in the home

7 - 50 litre pre-sorting bins

The pre-sorting bin is a practical aid in the home. Compostable waste (for example) can be quickly and accurately separated as part of the normal housework. As an option the 10 litre bins can be fitted with a swing lid. From a volume of 35 litres the bins are also available with an optional comb lift bar. Colours on application.



▲ Mini GMT for promotional application



◀ Swing lid for pre-sorting bin 10 litre



Pre-sorting bins	Mini GMT	7 l Standard	10 l Standard	20 l	25 l	30 l*	35 l*	40 l** Standard	40 l Stackable	50 l** Standard	50 l Stackable
Width mm (W)	56	150	175	290	290	335	335	445	402	445	402
Depth mm (D)	72	180	195	300	300	323*	323*	400	407	400	407
Height mm (H)	105	300	300	341	431	421	481	400	410	500	500
Nominal capacity l	-	7	10	20	25	30	35	40	40	50	50

(*Optional with comb lift bar = depth 363 mm)
(**with comb lift bar)

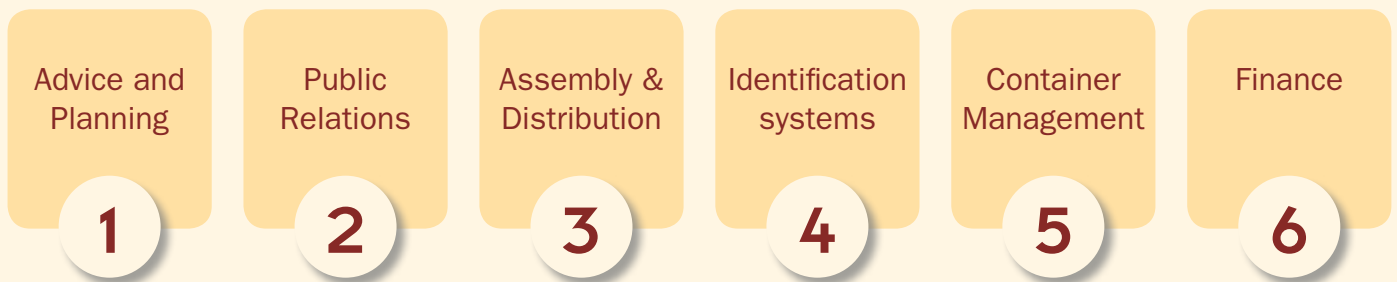
Collection boxes

The practical plastic collection box not only lightens the everyday tasks in the home. Experience shows that pre-sorting significantly raises the quality of the collected material, and also increases the quantity.

Collection basket	4121	4221	4441	6281
Approx. width mm (W)	300	300	400	400
Approx. length mm (L)	400	400	400	600
Approx. height mm (H)	120	220	420	285
Nominal capacity l	11.5	21.0	54.0	57.0



6 Point Service for you



Make use of our experience!

We offer you a professional and individually tailored service – planned to make the most of your container stock

Let us work together to solve logistic challenges. SSI SCHÄFER's professional service combines the provision of containers with additional service requirements into the best possible and efficient waste management.

As the customer, you always have the choice between service proposals – whether you “only” require containers or involve us in the responsibility for the operation of the container system. We are flexible.

Our experience over decades in the field of Waste Management and Recycling is a guarantee of quality. SSI SCHÄFER offers everything in one hand, consistently from the start.

Interrelated factors, such as transparent outgoings and comprehensible cost structures, are clearly presented by means of clear data information and make effective analysis, planning and management possible.

You can rely on the fact that your equipment is always “right for the job” and ready to use and you only have to procure what you actually need.

What starts with refuse collection can be developed into an individually tailored complete service programme. We will gladly make our experience available to you at all times.



1

Advice and Planning

Analysis and stock taking
Ascertaining residents requirements (door to door)
Assessment of council expenditure
Advice
Drawing up of individual schemes



2

Public Relations and Communication

Drawing up of information material such as:

- Collection calendars
- Guidelines for separation of refuse
- Information for residents

Marking of the refuse and recycling containers with:

- Embossing, labelling, numbering
- Logos, coats of arms



3

Distribution service

Planning, organisation and documentation
Drawing up of distribution lists
Assembly and distribution in the operational area
Arrangement of the interim storage area
Telephone service (call centre)



4

Identification systems

“Producer pays“ billing systems

5

Container Management

Data supported management of the container stock
Rationalisation of the refuse collection
Container exchange and replacement
Maintenance and repair of the containers
Cleaning and disinfecting of the containers
Integration of the containers in the users storage area
Optimisation of the container stock
Recycling of containers



6

Financing

Innovative financing solutions for the purchase of your equipment requirements

Identification System

The “Producer Pays“ system for waste collection General situation today

Waste reduction is a requirement for us all. With the introduction of an information chip system the council gains an element of control, by which it is prepared for the future. The introduction of a chip into the container makes the container irrevocably assigned to the householder. The local authority can then decide which system should be further implemented:

1. **Building an inventory of all containers with chips**
2. **Identification system for invoicing the emptying of the bin**
3. **Weighing system for the calculation of the refuse weight**

A full inventory provides the basis for a modern management system, which makes it possible to register every container. Many areas are familiar with increasing problems such as “black waste”, where refuse containers have not been registered as available for the use of the householders. Especially in times when money is tight, it is of the highest importance that the income from charges remains secure. Moreover, with this data base, it is possible to implement an increase in the charges automatically. Costs are decreased by the installation of an identification system. Experience proves that identification systems pay for themselves in a short period.

A further step is the introduction of a charging structure based on the quantity of refuse produced. It gives an incentive for the avoidance of waste, for the individuals own behaviour is suddenly reflected in the level of the invoice for the charges. Increasingly more local authorities are changing their refuse regulations with the introduction of the system, in order, thereby, to motivate the householders to sort their refuse more effectively.

Experience proves that the quantity of residual refuse decreases in areas where the refuse charges are determined by the quantity of refuse produced.

We also offer you an additional service: SSI Schäfer can also deliver the containers to the individual houses and programme the fitted chips to each address.



The Advantages at a Glance of the Installation of an Identification System

for the local authorities:

- considerably simplified administration
- transparency of costs and performance concerning the householders and contractors
- producer- responsible invoicing
- high acceptance of charging information
- highly reliable statistics (e.g. as the basis for future charges)
- information for queries from the public constantly available
- avoidance of “black collections”

for the householders:

- fair charging system
- very clear information concerning charges
- potential for lower charges
- no expenditure for buying and fixing stamps or payment seals

for the collection contractor:

- reduced costs
- clear information for logistics and finance
- exact collection lists
- clearly available statistics e.g. for vehicle utilisation, travel and tipping times, journey distances, operational data
- collection round optimisation
- material flow management
- easy rectification of collection mistakes by means of recorded location of bins and vehicles with GPS

Charging system

1

Estimated assessment

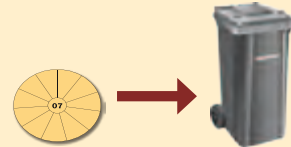
according to volume



ascending charging according to the volume of the bin

mit Gehängestrap

chip nest on the comb lifting rim



Gebäude mit sichtbarer Kennzeichnung für die bin

2

Identification of the bin by means of barcode / identification chip

This method makes a **clear allocation** of the bin to the appropriate refuse producer possible.

The residents only pay for the bins which they have actually filled and put out for collection.

Advantage: reduction of the frequency of emptying and the quantity of residual refuse, cost reduction for the local authority and, therefore, for the residents.



Chipnest an der Kammleiste



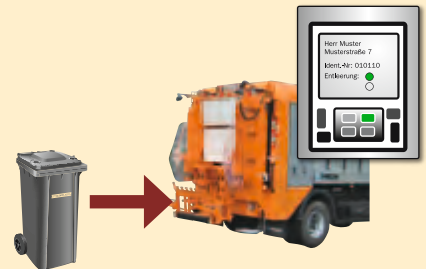
3

Identification of the bin by means of barcode / identification chip with weighing

This system, firstly, **clearly identifies** the bin with the producer of the refuse and, in addition, **measures the exact quantity of the waste arisings**.

The refuse bin is electronically registered and weighed directly during the emptying operation on the lifting gear and the data accurately transferred to the office, which raises the invoice.

Advantages: increased transparency and control – for the local authority and residents, also ideal for commercial refuse collection.



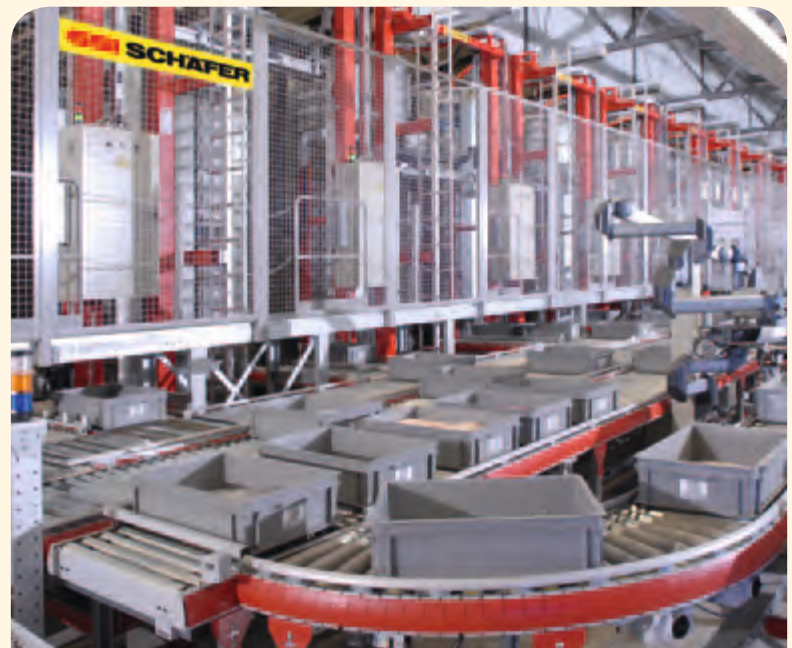
Tell us what the situation is with your refuse bins on site. We will gladly advise you about the alternative choices for a suitable system to achieve your aims – also about planning and introduction.

Versatile and professional

Product diversity and know-how

SSI SCHÄFER is also numbered among the leading suppliers throughout the world of comprehensive, high quality systems in the fields of storage and works facilities. From boxes and crates to tailored shelving systems up to complete all-embracing systems. Everything is fully coordinated and can be combined according to the requirement.

Saving space and time are the most important criteria for the economics of storage. Ranging from simple modular shelving to complex logistic solutions – SSI SCHÄFER offers highly developed, variable and flexible shelving systems for versatile applications of the highest quality.



Order the SSI SCHÄFER
main catalogue for storage
and works facilities under:
www.ssi-schaefer.de





Boxes and containers

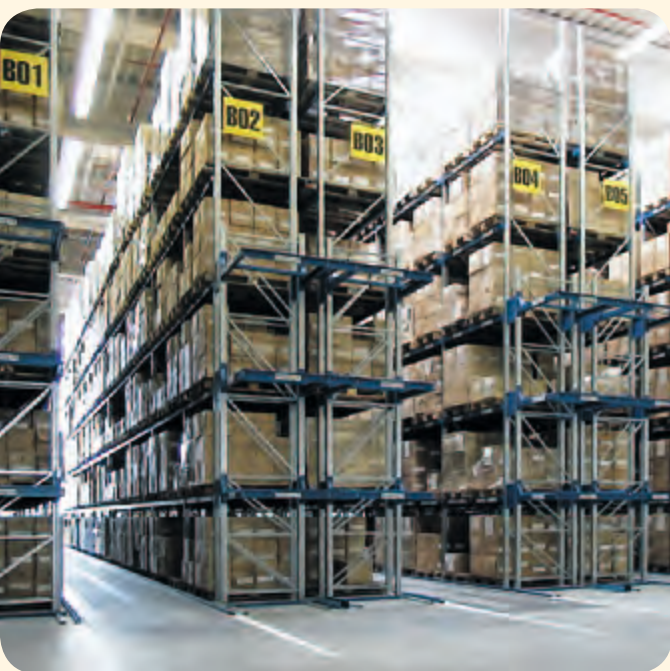
Shelving systems and mezzanine platforms

Workshop and works equipment

Safety and environmental equipment

Storage management and material flow systems

Automatic order-picking systems



Free space for ideas

Office worlds for a successful work environment

SSI SCHÄFER offers you an extensive range of modular and functional office furnishings for the most varied applications. The systems are designed according to ergonomic principles and concepts, strongly constructed and fulfil the requirements of the EU Health and Safety at Work as well as the guidelines for VDU work stations.

Attractive surface decoration, varying shapes and tailored, matching accessories offer you a wide range of choice and unlimited flexibility of design. Of course SSI SCHÄFER, as always, use the well tried and tested raw material, steel. Flexibility, strength and long service life are the convincing advantages.

Our high quality office furniture systems are accompanied by a comprehensive service. You can use our on site design and consultancy service, individual floor planning, work space layout with computer aided drawings as well as our complete erection and building service all carried out by fully trained technicians.



Table systems
Counter systems
Cupboards
Chairs



Order the main catalogue for
office furniture from:

www.ssi-schaefer.de



Partners worldwide



Head office and main works at Neunkirchen, Germany

SSI SCHÄFER international production plants for waste collection systems



Malaysia, Johor



USA, Charlotte NC



USA, Lodi CA



Czech Republic, Hranice



Belgium, Zaventem



Sweden, Malmö



Great Britain, Andover



Singapore



France, Yutz



Holland, Arnhem



Austria, Wels

Canada, Brampton



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