



SSI SCHÄFER

Product Overview

Grumbach Depot Container System

Contents

Pages 66 | 67
68 | 69
70 | 71
70 | 71

Depot container – Standard and the economics
Depot container and noise reduction
Depot container – versions and apertures
Underground System

Pages 72 | 85
86 | 87
88 | 89
90 | 93
94 | 95

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 for the central collection of recyclable material

Depot Container



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.



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.



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



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:

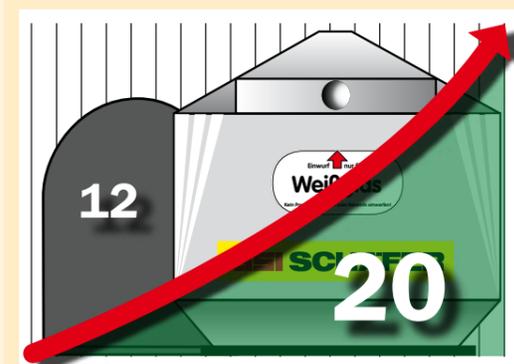
≈ **66% productivity increase** = **20 Depot containers from SSI SCHÄFER can be emptied compared to 12 Depot containers of systems from other producers (per hour without travelling and non-productive times)**

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

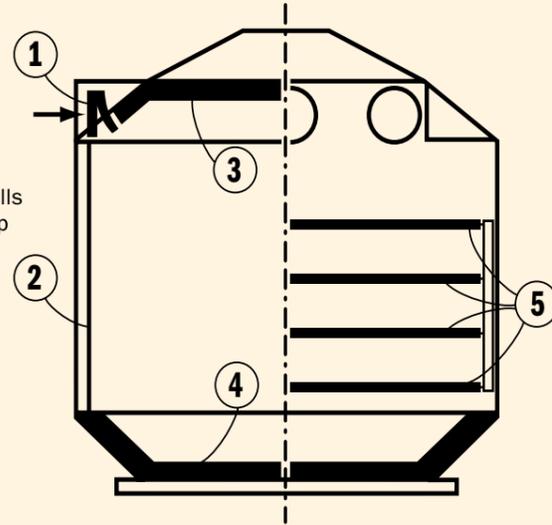
The conclusion is

- 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"



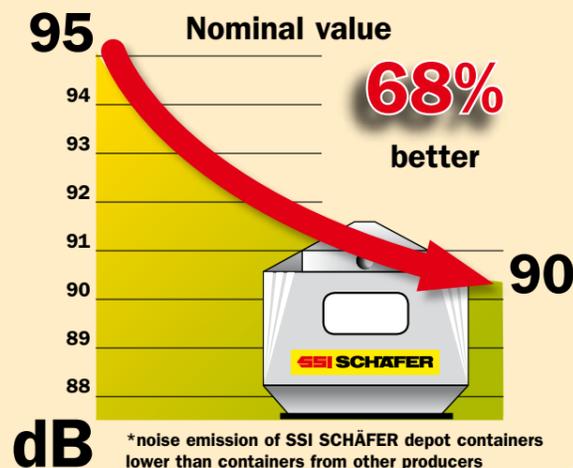
Noise reduction of the depot container for glass

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 – 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

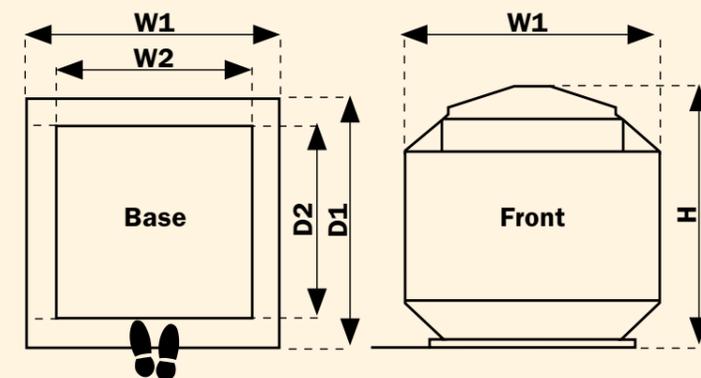
colour coded corners and information stickers to identify the recyclable material

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



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



easy discharge with a one man crew – an advantage of the depot container

apertures for glass see page 70 | 71



apertures for paper see page 70 | 71

Colour Coding

Waste paper Textiles Electronic Light scrap packaging



Brown glass Green glass Clear glass



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.

Depot container – basic version for a quick conversion



Quick and easy conversion



Standard paper aperture



Standard glass aperture with flap



Glass aperture for a three chamber container



Glass aperture with insert for collection of used batteries in a hazardous materials box

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



Special aperture versions



Depot container 3.2 m³ for light packaging



Depot container 3.2 m³ for textiles



Depot container 3.2 m³ for electronic scrap



Depot container 3.2 m³ for cardboard

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.

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.

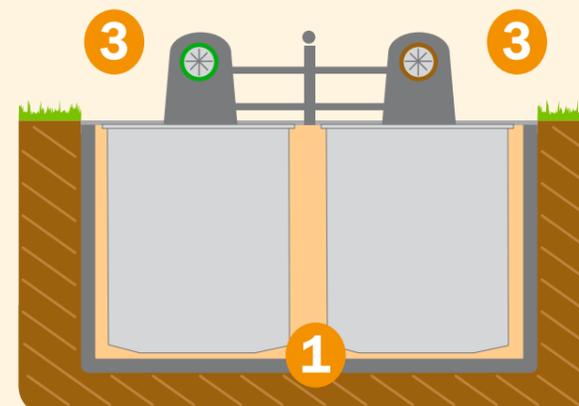
easy emptying

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.



Underground collection site for the central collection of glass in an urban area. Reduction of noise pollution and creation of an attractive townscape.

Emptying of the collection container by the Grumbach System with one person



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

Further information available on request

