



# Feed Bins

User guide



Original User Guide



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DISCLAIMER

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## Disclaimer

The original, authoritative version of this manual is the English version produced by ROXELL BV. Subsequent changes to any manual made by any third party have not been reviewed nor authenticated by Roxell. Such changes may include, but are not limited to, translation into languages other than English, and additions to or deletions from the original content. Roxell disclaims responsibility for any and all damages, injuries, warranty claims and/or any other claims associated with such changes, in as much as such changes result in content that is different from the authoritative Roxell-published English version of the manual. For current product installation and operation information, please contact the customer service and/or technical service departments of Roxell. Should you observe any questionable content in any manual, please notify Roxell immediately in writing to: ROXELL BV - Industrielaan 13, 9990 Maldegem - Belgium.



# General information

**!** **IMPORTANT:** These instructions must be read, understood and all points observed by the user, the responsible and operating personnel.

## Obey the legal regulations and the applicable rules

This concerns, among other things, the European regulations and directives transposed into national legislation and/or the laws, safety and accident prevention regulations that apply in the user's country.

During assembly, operation and maintenance of the installation the legal regulations concerned and the applicable technical rules must be obeyed.

## Intended use

The installation has been designed solely for intensive livestock use and has been developed according to the applicable rules of good workmanship. Extra loading of the product is therefore prohibited. Any other use is considered to be improper use. The manufacturer is not responsible for damage resulting therefrom. The user bears sole responsibility. The manufacturer can determine from the system data whether the product was used in accordance with the specified use.

## Not-intended use

All use different than described in [Intended Use](#) is at the responsibility of the end user.

## Liability

The (extended) warranty will not apply if any of the following has occurred: failure by the customer to inspect the delivered goods and report visible defects within 8 days of delivery with respect to the products, improper handling, transportation, modification or repair; accidents, defective or improper use; improper or defective assembly, installation, connection or maintenance (having regard to Roxell's most current assembly, installation, connection and maintenance manuals); improper modifications or manipulations of the operating system, hardware or any other software of the product by the customer; force majeure; negligence, lack of supervision or of maintenance on the part of customer; normal wear and tear; use of cleansing agents and disinfectants that are excluded in Roxell's most current use and maintenance manuals; use of cleansing agents and disinfectants in violation with the instructions received from the suppliers; or use of the products in an ATEX- surrounding.

The (extended) warranty shall not apply in the event of a defect caused either by materials or accessories supplied by or services rendered by the customer; or by an intervention by a person or entity which is not authorized or qualified for carrying out such intervention. Furthermore, the (extended) warranty will only apply if the products are used in livestock houses and if all parts or components of the products are supplied by Roxell.

Roxell will not be liable for any damages caused due to improper or defective use, assembly, installation, connection or maintenance of the products. In this respect, the customer expressly acknowledges that (i) all use, assembly, installation, connection or maintenance must be done in accordance with Roxell's most current assembly, installation, connection and maintenance manuals and (ii) the electrical installation on which the products must be connected must be done in accordance with applicable local legislation on electrical installations. Furthermore, the products must be tested both mechanically and electrically by the customer in accordance with state of the art techniques and applicable local legislation.

## Personnel qualifications

### User

The person who uses a function or operation of a product for their work or who works on the product. The user must be able to read the instructions for use and fully understand them. The user has knowledge of the functioning and construction of the installation.

## Technically trained person

An expert who can assemble and maintain the installation (**mechanically/electrically**), and resolve malfunctions. On the basis of his/her technical training and experience, he/she has sufficient knowledge to be able to assess activities, recognize possible dangers and rectify dangerous situations.

## Storage

Put all parts to be assembled in a room or at a location where the not yet assembled components are protected against weather influences.

## Transport

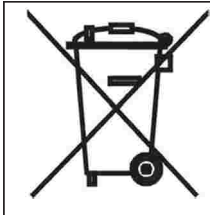
Depending on the size of the parts and according to local circumstances and local legislation, the parts of the machine have to be transported with a forklift.

The forklift must be operated by a qualified person and in accordance with the rules of good workmanship. When lifting the load, always check if the center of gravity of the load is stable.

## Dismantling

Dismantle the installation and its components in accordance with the environmental legislation of the country or the local authorities applicable at that time. All functioning products and exchange parts must be stored and disposed of in accordance with the applicable environmental regulations.

## Environmental information for customers in the European Union



The European legislation requires that equipment marked with this symbol on the product or packaging must not be collected with unsorted household waste. This symbol indicates that the waste electrical and electronic equipment (WEEE) cannot be disposed of in the regular household waste. We highly recommend that you bring your product to an official collection point so that an expert can remove the waste electrical and electronic equipment. Inform yourself of local legislation on separate collection of waste electrical and electronic equipment. Respect the local regulations and never dispose of the product together with household waste.

## Information about waste disposal - electrical/electronic material for companies

### 1. In the European Union

If you have used the product for commercial purposes and you want to dispose of it, contact Roxell, who will give you information about the return of the product. It is possible that you will have to pay a disposal charge for the return and recycling. Small products (and small quantities) can be processed by the local collection agencies.

### 2. In other countries outside the European Union

If you want to dispose of this product, contact the local authorities for information concerning the correct disposal procedure.

## The level of noise emission

The noise level of the installation in operation does not exceed 70 dB(A).

## LOTOTO = Lock Out - Tag Out - Try Out

Before you begin: Everyone needs his own lock and tag (label), which can't be removed by other persons. Inform all the persons who are influenced by the procedure.

### 1 To block

- Localize all sources of energy (electric, hydraulic, pneumatic).
- Switch off.
- Take the relevant installation or process out of operation and lock it against reuse. You can do this by placing a padlock or other blocking mechanism (Lock Out).

### 2 To mark

Attach a sign, label or sticker to the padlock or blocking mechanism to reveal the nature and the expected duration of the work to other persons (Tag Out).

### 3 To check

- Check if the source of energy is switched off.
- Remove any remaining energy.
- Check that the installation or process is actually safe (Try Out).

## Use personal protective equipment

Ensure you wear personal protective equipment (gloves, dust masks...).

## Illuminance - sufficient lighting

- **A minimum illuminance of 200 lux is necessary** during usage, maintenance and installation.
- Provide at the installation **(portable) emergency lighting in case of power failure**.

## Electrical equipment, control panels, components and drive units








- To operate control panels, there must be **at least 70 cm of free space**.
- Control panels must **always remain closed**. The key of the control panel must be in possession of an authorized person. Only an electrically trained person (see above) shall carry out maintenance activities inside the control panels.
- The necessary measures must be taken by the user to keep out **rats, mice and other vermin from the control panels**.
- If electrical equipment, control panels, components and drive units are damaged, the system must be stopped **immediately!**
- Electrical equipment, control panels, components and drive units should **never be sprayed with water or other liquid!**
- Electrical equipment, control panels, components and drive units should **never be covered with any material**.

## Information about the residual risks - used safety signs

There are three levels of danger, which you can recognize from the following signal words:

- **DANGER**
- **WARNING**
- **CAUTION**

The nature and source of the imminent danger and possible consequences of not obeying warnings is stated here!

Symbol	Meaning
	<b>DANGER</b> indicates a direct imminent danger that can result in a serious or even fatal accident if the safety measures are not respected.
	<b>WARNING</b> indicates a possible imminent danger that can result in a serious accident or damage to the product if the safety measures are not respected.
	<b>CAUTION</b> indicates possible, dangerous situations that can result in minor physical injury or material damage if the safety measures are not respected.
	This symbol refers to supporting information.
	Allowed
	Not allowed
	This symbol will be used to draw your attention to matters that are of great importance for your safety. <b>It means: warning - follow the safety instructions. Disconnect the current and read the safety rules. In short: be alert. Ignoring these instructions can cause serious injuries or even death.</b>

## GENERAL SAFETY RULES

Storage Line Roxell

Metal storage bins for animal feed

### IMPORTANT



DANGER

Carefully read the following instructions before  
**USING** the system



DANGER

**Be careful!**  
**Your safety is at stake!**

- Read the User's guide and Use - & Assembly Guide carefully.
- Keep the User's guide and Use - & Assembly Guide at a safe, well accessible place.
- Use personal protective equipment (safety gloves, helmet, harness, safety line, anti-slip safety shoes, dust mask, etc.).
- Make sure that assistance is immediately available in case of trouble.



**Switch off the main switch first.**  
**Use personal protective equipment.**  
**Avoid electrical shock.**  
**Place the equipment in a safe area.**  
**Protect the environment around the controller.**



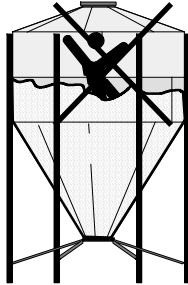
## GENERAL SAFETY RULES

### LADDERS

#### IMPORTANT



**DANGER**



#### Before you enter a bin:

You can suffocate under material in the bin.  
Never enter the bin when it contains material.

Switch off the main switch first.

Use a safety harness and safety line.

Wear proper breathing equipment.

Make sure that assistance is immediately available in case of trouble.

- Maximum weight = 200 kg
- Never climb a damaged or poorly installed ladder.
- Keep the rails free of mud or other slippery material.
- Wear anti-slip safety shoes.
- Never climb a ladder if your physical condition is not optimal:  
In case of fatigue, under the influence of medication, alcohol, drugs or if you feel unwell.
- Look at the ladder when climbing or descending. Make sure you get a good grip.
- Never use the hook-in-ladder in another application.  
Hook the ladder only into an original vertical bin ladder.
- When climbing a roof ladder, it is required to wear a safety harness and a safety line.
- Never step on the roof sections.



#### **DANGER**

Serious personal injury and/or death may result from feed stored in the silo.

Empty the silo **completely** before opening the manhole.



**DANGER**



**Never** open entry hatch when there is feed in the bin!

## MAINTENANCE INSTRUCTIONS



**DANGER**

**Switch off the main switch first.  
Use personal protective equipment.**

### Neatness:

- Keep the bin and (surroundings) free of: mud, acid feed, metal scratch and contact with other metals ( e.g. aluminium,...)

### Corrosion:

- All parts of the silo require little maintenance.
- Do not store any substances that have corrosive impact on the bins.
- Check regularly the bin for corrosion and treat the affected parts.
- In case of rust, contact a specialist.

### Feed material storage:

- You can only store good flowing (free-flowing) ingredients of feeding with a specific weight  $\leq 6.5 \text{ kN /m}^3$  ( $\leq 650 \text{ kg/m}^3$ )
- Contact the supplier of the materials, you store, for information regarding cohesion and bridge forming.



**WARNING**

### ATTENTION!

**Soya coarse meal, meat scraps and many other materials are not free flowing.**

**You cannot store these materials in the bin!**

### Filling and Emptying:

- The bin may only be filled or emptied centrally.
- All other methods must be approved by Roxell in writing.
- In case you do not use the bin for a while, see that it is empty and cleaned inside.



**WARNING**

### Pneumatic filling:

- Use a good porous dust collector on the exhaust pipe.
- A blocked exhaust pipe can seriously damage your bin.
- Blowing pressure: maximum 1.2 bar.  
Higher pressure can seriously damage the bin.

## GENERAL SAFETY RULES

Storage Line Roxell

Metal storage bins for animal feed

### IMPORTANT



DANGER

Carefully read the following instructions before  
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**Be careful!**  
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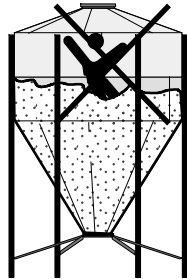
## GENERAL SAFETY RULES

### LADDERS

### IMPORTANT



**DANGER**



#### To enter a day bin:

You can suffocate under material in the day bin.  
Never enter the day bin when it contains material.

Before you enter a day bin:

- Switch off the main switch first.
  - Use a safety harness and safety line.
  - Wear proper breathing equipment.
  - Make sure that assistance is immediately available in case of trouble.
- Maximum weight = 200 kg
  - Never climb a damaged or poorly installed ladder.
  - Keep the rails free of mud or other slippery material.
  - Wear anti-slip safety shoes.
  - Never climb a ladder if your physical condition is not optimal:  
In case of fatigue, under the influence of medication, alcohol, drugs or if you feel unwell.
  - Look at the ladder when climbing or descending. Make sure you get a good grip.
  - Never use the hook-in-ladder in another application.  
Hook the ladder only into an original vertical bin ladder.
  - When climbing a roof ladder, it is required to wear a safety harness and a safety line.
  - Never step on the roof sections.



**DANGER**



**Never open entry hatch when there is feed in the day bin!**

## MAINTENANCE INSTRUCTIONS



**DANGER**

**Switch off the main switch first.  
Use personal protective equipment.**

### Neatness:

- Keep the day bin and (surroundings) free of:  
mud, acid feed, metal scratch and contact with other metals ( e.g. aluminium,...)

### Corrosion:

- All parts of the day bin require little maintenance.
- Do not store any substances that have corrosive impact on the day bins.
- Check regularly the day bin for corrosion and treat the affected parts.
- In case of rust, contact a specialist.

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### **ATTENTION!**

**Soya coarse meal, meat scraps and many other materials are not free flowing.**

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### Filling and Emptying:

- The day bin may only be filled or emptied centrally.
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- In case you do not use the day bin for a while, see that it is empty and cleaned inside.

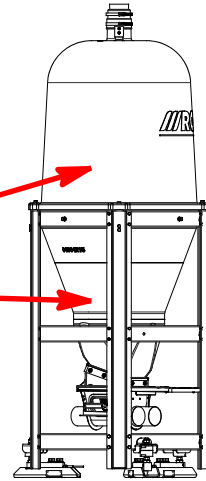
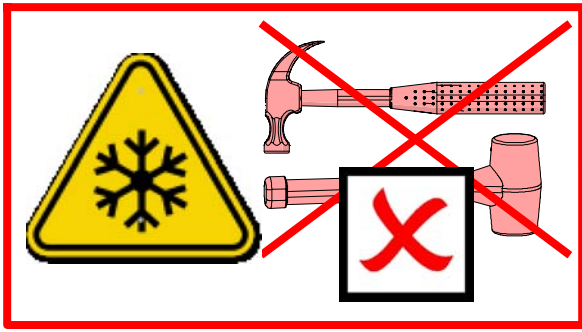


**WARNING**

### **Pneumatic filling:**

- Use a good porous dust collector on the exhaust pipe.
- A blocked exhaust pipe can seriously damage your day bin.
- Blowing pressure: maximum 1.2 bar.  
Higher pressure can seriously damage the day bin.





**DECLARATION OF PERFORMANCE**

05900432

Unique identification code of the product type	059 / 060 / 061 / 062 / 063
Intended use	Structural components for use in all types of construction work
Manufacturer	Roxell BV - Industrielaan 13 – 9990-Maldegem - België
System of AVCP	2+
Harmonised standard	EN 1090-1:2009+A1:2011
Execution class	EXC1, EXC2
Notified Body	Kiwa Nederland B.V. (identification number 0620)
Certificate No.	0620-CPR-93574/02

Essential characteristics:	Performance:	In accordance with standard:
Tolerance on dimensions and shape:	Conform EN 1090-2	EN 1090-1:2009+A1:2011 article 4.2, 5.3
Weldability:	NPD	EN 1090-1:2009+A1:2011 article 4.3, 5.4
Fracture toughness:	NPD	EN 1090-1:2009+A1:2011 article 4.4, 5.5
Impact load resistance:	NPD	EN 1090-1:2009+A1:2011 article 4.8, 5.10
Load capacity:	2.5 t – 32.4 t	EN 1090-1:2009+A1:2011 article 4.5.1, 4.5.2, 5.6.2
Distortion serviceability limit state:	NPD	EN 1090-1:2009+A1:2011 article 4.5.5
Fatigue strength:	NPD	EN 1090-1:2009+A1:2011 article 4.5.1, 4.5.3, 5.6.2
Fire resistance:	NPD	EN 1090-1:2009+A1:2011 article 4.5.1, 4.5.4, 5.7
Reaction to fire:	Class A1	EN 1090-1:2009+A1:2011 article 4.6, 5.8
Release of cadmium and its compounds:	NPD	EN 1090-1:2009+A1:2011 article 4.7, 5.9
Radioactive radiation:	NPD	EN 1090-1:2009+A1:2011 article 4.7, 5.9
Durability:	NPD	EN 1090-1:2009+A1:2011 article 4.9, 5.11

The performance of the product identified above is in conformity with the set of declared performances.  
This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011 Construction Products Regulation), under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Place, Date:  
Maldegem, 01/01/2023

Gino Van Landuyt  
Managing Director



### EC Declaration of Conformity

We declare completely on own justification that

(product name)

(number CE label)

is in conformity with the provisions of **Regulation EU 305/2011** (Construction Products Regulation) and annex ZA of EN 1090-1:2009+A1:2011 1 and the prescriptions of Roxell.

Execution class	EXC1, EXC2
Notified Body	Kiwa Nederland B.V. (identification number 0620)
Certificate No.	0620-CPR-93574/02

Essential characteristics:	Performance:	In accordance with standard:
Tolerance on dimensions and shape:	Conform EN 1090-2	EN 1090-1:2009+A1:2011 article 4.2, 5.3
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Radioactive radiation:	NPD	EN 1090-1:2009+A1:2011 article 4.7, 5.9
Durability:	NPD	EN 1090-1:2009+A1:2011 article 4.9, 5.11

The EC declaration of conformity relates exclusively to the product in the state in which it was placed on the market and excludes components which are added and/or operations carried out thereafter for instance by the distributor and/or the installer and/or the final user.

(place, date)

(name, signature)

**DECLARATION OF PERFORMANCE**

05901006

Unique identification code of the product type	059 / 060 / 061 / 062 / 063
Intended use	Structural components for structural use in all types of construction works
Manufacturer	Roxell BV - Industrielaan 13 – 9990-Maldegem - België
System of AVCP	2+
Designated standard	EN 1090-1:2009+A1:2011
Execution class	Up to and including <b>EXC2</b>
Approved Body	CfA Centre for Assessment: 2551
Certificate No.	22/2460

Essential characteristics:	Performance:	In accordance with standard:
Tolerance on dimensions and shape:	Conform EN 1090-2	EN 1090-1:2009+A1:2011 article 4.2, 5.3
Weldability:	NPD	EN 1090-1:2009+A1:2011 article 4.3, 5.4
Fracture toughness:	NPD	EN 1090-1:2009+A1: 2011 article 4.4, 5.5
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Reaction to fire:	Class A1	EN 1090-1:2009+A1:2011 article 4.6, 5.8
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Durability:	NPD	EN 1090-1:2009+A1:2011 article 4.9, 5.11

The performance of the product identified above is in conformity with the set of declared performances.

This declaration of performance is issued, in compliance with the Construction Products Regulation 2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Place, Date:  
Maldegem, 01/01/2023

Gino Van Landuyt  
Managing Director

**UK Declaration of Conformity**

We declare completely on own justification that

\_\_\_\_\_

(product name)

\_\_\_\_\_

(number CE label)

is in compliance with the Construction Products Regulation 2011 and the prescriptions of Roxell.

Execution class	Up to and including <b>EXC2</b>
Approved Body	CfA Centre for Assessment Approved Body: 2551
Certificate No.	22/2460

Essential characteristics:	Performance:	In accordance with standard:
Tolerance on dimensions and shape:	Conform EN 1090-2	EN 1090-1:2009+A1:2011 article 4.2, 5.3
Weldability:	NPD	EN 1090-1:2009+A1:2011 article 4.3, 5.4
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Reaction to fire:	Class A1	EN 1090-1:2009+A1:2011 article 4.6, 5.8
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The EC declaration of conformity relates exclusively to the product in the state in which it was placed on the market and excludes components which are added and/or operations carried out thereafter for instance by the distributor and/or the installer and/or the final user.

\_\_\_\_\_

(place, date)

\_\_\_\_\_

(name, signature)



This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page, typical of notebook paper. There are 20 horizontal lines in total, starting from the top and ending near the bottom. The paper is framed by a thin black border.



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