

Storage[™]line

User's Guide

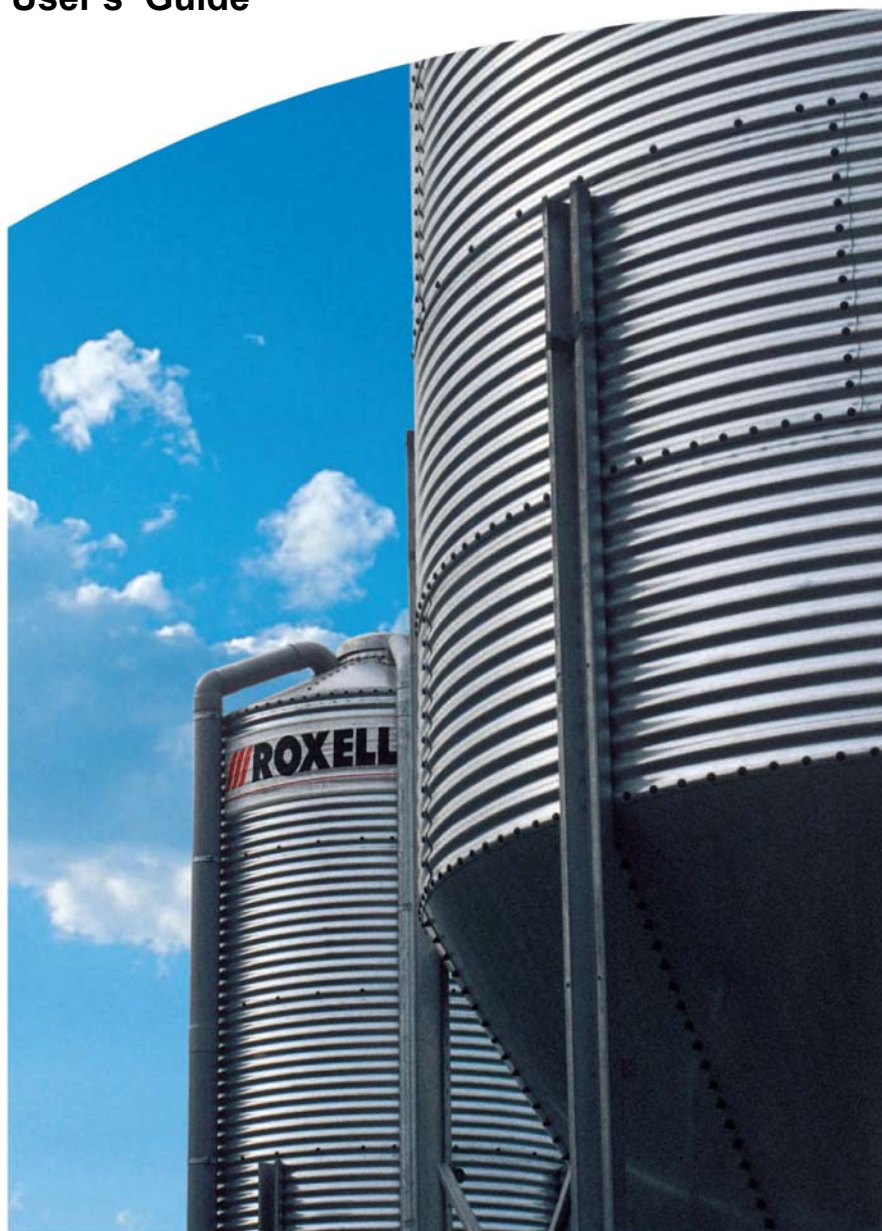


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GENERAL INFORMATION

THESE INSTRUCTIONS MUST BE READ, UNDERSTOOD AND ALL POINTS OBSERVED BY THE USER, THE RESPONSIBLE AND OPERATING PERSONNEL.

1. OBEY THE LEGAL REGULATIONS AND THE APPLICABLE RULES!

This concerns, among other things, the European 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.

2. 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 there from. The user bears sole responsibility.

3. NOT-INTENDED USE

All use different than described in point 2" intended use" is at the responsibility of the end user.

4. LIABILITY

The (Extended) Warranty will not apply if any of the following has occurred: failure to conduct incoming goods inspection with regards to the Products, improper handling, transportation, modification or repair; accident, abuse or improper use; improper assembly, installation, connection or maintenance (having regard to Roxell's most current assembly, installation, connection and maintenance manuals); 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 Customer; or by an intervention by a person or entity which is not authorised 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 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 in accordance with state of the art techniques and applicable local legislation.

5. 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, recognise possible dangers and rectify dangerous situations.

6. INFORMATION ABOUT THE RESIDUAL RISKS - USED SAFETY SIGNS

There are three levels of danger, which you can recognize from the signal word

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

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

 DANGER	<p>DANGER indicates a direct imminent danger that can result in a serious or even fatal accident if the safety measures are not respected.</p>
 WARNING	<p>WARNING indicates a possible imminent danger that can result in a serious accident or damage to the product if the safety measures are not respected.</p>
 CAUTION	<p>CAUTION indicates possible, dangerous situations that can result in minor physical injury or material damage if the safety measures are not respected.</p>
	<p>This symbol refers to supporting information.</p>
<p> <input checked="" type="checkbox"/> allowed <input type="checkbox"/> not allowed </p>	

7. 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.

8. 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.

9. 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



European directive 2002/96/EC amended by the Directive 2008/34/EC requires that equipment that bears this symbol on the product or packaging must not be disposed of with unsorted household waste. This symbol indicates that the product must be disposed of separately. You are yourself responsible for the destruction of this and other electrical and electronic equipment via the disposal channels designated for that purpose by the national or local government. The correct destruction and recycling of this equipment prevents any negative consequences for the environment and health. For more information about destroying your old equipment, contact your local authorities or waste disposal service.

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.

10. THE LEVEL OF NOISE EMISSION

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

11. LOCK OUT TAG OUT – LOCK METHOD GENERAL

- Everyone needs his own lock and tag (label), which can't be removed by other persons.
- Inform all persons who are influenced by the procedure.
- Localize all sources of energy (electric, hydraulic, pneumatic).
- Switch off.
- Lock out and tag out.
- Check if the source of energy is switched off.
- Remove any remaining energy.

12. USE PERSONAL PROTECTIVE EQUIPMENT.

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

13. SUFFICIENT LIGHTING - ILLUMINANCE

- **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.**

14. 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.
- 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.**

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.

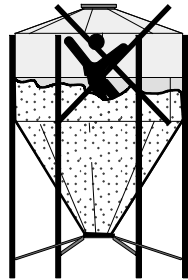
GENERAL SAFETY RULES

LADDERS

IMPORTANT



DANGER



To enter a bin:

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

Before you enter a 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 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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DANGER

Be careful!
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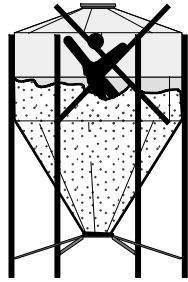
GENERAL SAFETY RULES

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.

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!

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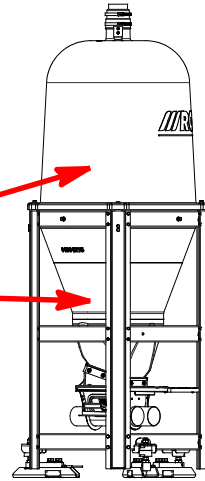
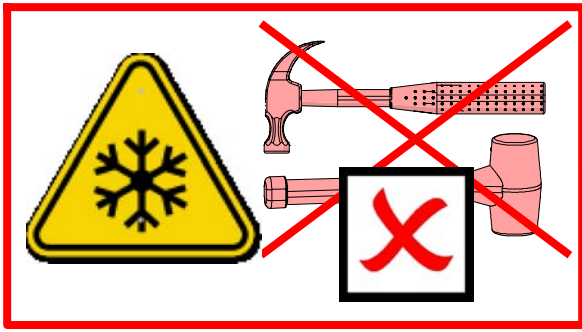
- The day bin may only be filled or emptied centrally.
- All other methods must be approved by Roxell in writing.
- In case you do not use the day bin for a while, see that it is empty and cleaned inside.



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.





ROXELL bvba, Industrielaan 13, B-9990 Maldegem (Belgium)
Tel. +32 50 72.91.72 - Fax. +32 50 71.67.21 - e-mail: info@roxell.com - www.roxell.com

ROXELL USA, Inc. - 720 Industrial Park Road - Anderson, MO 64831 (USA)
Phone +1 417 845-6065 - Fax. +1 417 845-6069 - e-mail: info.usa@roxell.com - www.roxell.com

ROXELL Malaysia - No. 12 Jalan Anggerik Mokara31/48, Kota Kemuning - Industrial Park, 40150 Shah Alam, Selangor,
Malaysia - Tel: +603 5121 7148 or +603 5121 7150 - Fax: +603 5121 7146 - A division of CTB Malaysia Sdn. Bhd.
(868715-X) - e-mail: info.malaysia@roxell.com - www.roxell.com

ROXELL Россия - ООО «Рокселл» ОГРН 1157746055026, 125167, Россия, г. Москва,
Ленинградский проспект, д. 37, корп. 9, пом. 653
Телефон: +7 (495) 983-30-15 Факс: +7 (495) 983-30-15 - Эл. адрес: info.russia@roxell.com - www.roxell.com