

# Storage<sup>™</sup>line

User's Guide



**ROXELL<sup>®</sup>**

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DECLARATION OF INCORPORATION OF PARTLY COMPLETED MACHINERY	

**DISCLAIMER** : The original, authoritative version of this manual is the Dutch version produced by ROXELL bvba. 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 Dutch, 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, inasmuch as such changes result in content that is different from the authoritative Roxell-published Dutch 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 bvba - Industrielaan 13, 9990 Maldegem - Belgium.

## 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!

 <b>DANGER</b>	<p><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.</p>
 <b>WARNING</b>	<p><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.</p>
 <b>CAUTION</b>	<p><b>CAUTION</b> 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.**

**Storage Line Roxell**

Metal storage bins for animal feed


**Metalen opslagsilo's voor opslag van veevoeder****SAFETY - BINS**

Since Roxell's existence **SAFETY IS TOP PRIORITY**, for customers as well as for suppliers, employees and animals. Read the User's Guide carefully to work safely with the bin and related products.

**PAY ATTENTION :**

Security is everybody's responsibility :

You protect yourself and others by safely using the products for the daily activities.



 <b>DANGER</b>	<b>ATTENTION BE CAREFUL YOUR SAFETY IS AT STAKE !</b>
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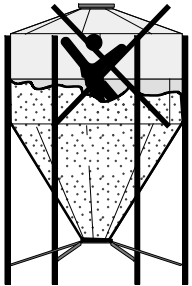
**A. GENERAL INSTRUCTIONS**

- When determining the location of the bin you should consider the following :
  - \* install the bin in a safe location.
  - \* avoid the proximity of electrical wiring that can come into contact with your bin.
  - \* avoid installation of the bin on lowlying terrain. In this way the bin and possible electrical wiring cannot come into contact with water or other conductors.
- Earth all electrical material.
- Wear gloves, safety helmet and shoes, etc....when assembling and installing the bin.
- Wear safety glasses when drilling, sawing, grinding or other work where dust and burrs can occur.
- Secure the tooling when you are working up above at the bin.
- Only use tooling with protection hood.
- Do not tilt heavy weights that can cause back and muscle injuries.
- Put warning signs everywhere where there is a possible risk of danger.

**B. SAFETY DURING THE OPERATION OF YOUR INSTALLATION**

- See that all safety precautions are in good shape and correctly placed..
- See that all electrical material is earthed..

 <b>WARNING</b>	<b>To avoid electrical shock, place the equipment in a safe area. Use guards around control panels. Always shut off and lock out control boxes when working on the equipment</b>	
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<p>You can suffocate under material in the bin. Never enter a bin when it contains material ! When it is empty, you can enter the bin only if you :</p> <ol style="list-style-type: none"> <li>1. Shut off and lock out al power</li> <li>2. Use a safety harness and safety line</li> <li>3. Wear proper breathing equipment</li> <li>4. Station people to help form outside the bin</li> </ol>	 <b>WARNING</b>	
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- Always be alert for all warning signs
- Contact your supplier before you wish to make changes that are not described.
- Do not use fastening material that is not supplied by your bin supplier . This can cause problems or danger not insured by our calculations.
- Take care of an easy contact in case of problems (emergency, injuries...)
- Keep the bin (and surroundings) free of :
  - \* mud
  - \* acid feed
  - \* metal scratch
  - \* contact with other metals (e.g. aluminum...)
- Make sure the supply is shut off when you do maintenance work at the bin.
- See that you keep the Manual for Use and Installation at a well accessible safe spot, immediately consultable when needed.
- Bin ladders :
  - \* Authorized weight = **200 kg**.
  - \* **NEVER** step on a faulty installed ladder.
  - \* Keep the rails free of mud or other slippery material.
  - \* Wear antislip shoes.
  - \* **NEVER climb onto a ladder when your physical condition is not optimal** (in case of fatigue, under influence of medication, alcohol, drugs, or an unstable health).
  - \* Look at the ladder when climbing or descending it. Be sure of a good grip
  - \* **NEVER** use the **hookinladder** in another application. Hook the ladder only in an original vertical bin ladder.
  - \* When climbing on a roof ladder it is compelled to wear a **safety harness**.
  - \* **NEVER** step on the roof sections.

NEVER OPEN ENTRY HATCH WHEN THERE IS FEED IN THE BIN !!!



DANGER





## USER DIRECTION - BINS

All parts of bin require little maintenance. You have to consider the used preservatives in the material stored. These could have a corrosive effect on the bin.

Check regularly the bin for corrosion and treat the affected parts. With heavy rust formation consult a specialist. In case of a rust degree of Ri4 (according to DIN 53 210) you can NO LONGER USE the bin.

The bin can be filled and emptied centrally only. All other methods have to be approved of in writing by the supplier.

The content of the bin can be checked through the feed viewer window.

You can only store following bulk materials in a bin :

- \* Concentrates according to DIN 1055.
- \* Positive flowing feed with a specific weight of  $\leq 6.5 \text{ kN} / \text{m}^3$  ( $\leq 650 \text{ kg} / \text{m}^3$ ).

### **ATTENTION:**

**SOYA COARSE MEAL, MEAT SCRAPS AND MANY OTHER MATERIALS ARE NOT FREE FLOWING.**

**YOU CANNOT STORE THESE MATERIALS IN THE BIN !!!**



**WARNING**

Contact the supplier of the materials you store for information regarding cohesion and bridging possibility.

In case you do NOT use the bin for a while see that it is empty and cleaned inside.

When you fill the bin pneumatically, use a good porous dust collector on the exhaust pipe. Your bin CAN BE SERIOUSLY DAMAGED if the exhaust is blocked.

The blowing pressure with pneumatic filling of the bin can be **maximum 1.2 bar**. With higher pressure the bin can be seriously damaged.

Snow load : according to DIN 1055 TS

Vertical weight on the roof of supports, tubes, scaffolds, platforms, etc... must not exceed 5kN (500kg).

Put the bin at a minimum distance of 0.5m from existing buildings.

Check all received parts on damages and failures. Consult the Ordering instructions at the end of this manual.

Take into account following points when determining the location of your new bin :

- Location of the inlet pipe.
- Location of the exhaust pipe.
- Place of the mechanical opening system.
- Place of the existing buildings.
- Direction of the transport system to be used.
- Location of the ladder.
- Location of the peripheral equipment such as bin valve and other options.
- Location of the body section with sign.

**Storage Line Roxell**

Metal storage daybins for animal feed

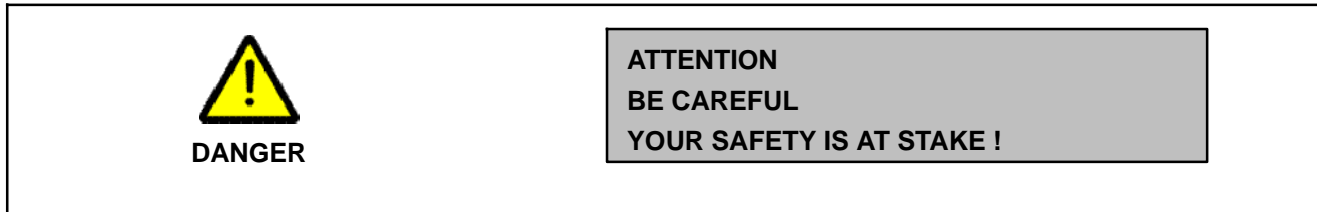
**Metalen opslagdagsilo's voor opslag van veevoeder****SAFETY - DAYBINS**

Since Roxell's existence SAFETY IS TOP PRIORITY, for customers as well as for suppliers, employees and animals. Read the User's Manual carefully to work safely with the daybin and related products.

**PAY ATTENTION :**

Security is everybody's responsibility :

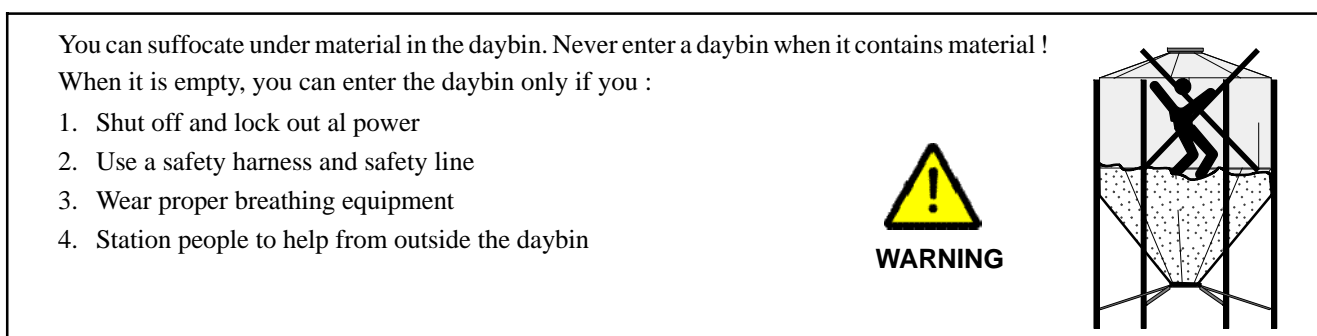
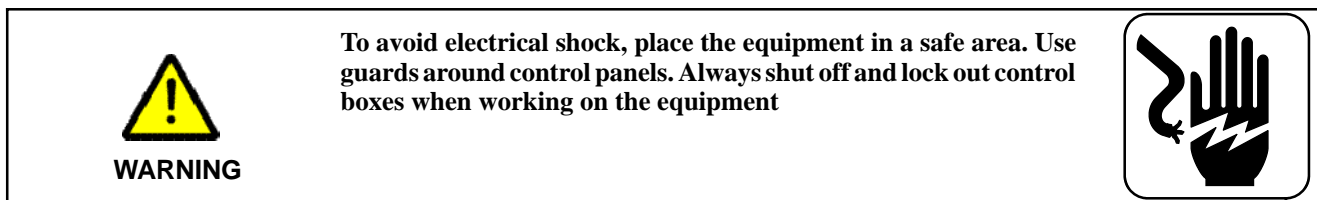
You protect yourself and others by safely using the products for the daily activities.

**A. GENERAL INSTRUCTIONS**



- When determining the location of the daybin you should consider the following :
  - \*install the daybin in a safe location.
  - \*avoid the proximity of electrical wiring that can come into contact with your daybin.
  - \*avoid installation of the daybin on lowlying terrain. In this way the daybin and possible electrical wiring cannot come into contact with water or other conductors.
- Earth all electrical material.
- Wear gloves, safety helmet and shoes, etc....when assembling and installing the daybin.
- Wear safety glasses when drilling, sawing, grinding or other work where dust and burrs can occur.
- Secure the tooling when you are working up above at the daybin.
- Only use tooling with protection hood.
- Do not tilt heavy weights that can cause back and muscle injuries.
- Put warning signs everywhere where there is a possible risk of danger.

**B. SAFETY DURING THE OPERATION OF YOUR INSTALLATION**

- See that all safety precautions are in good shape and correctly placed..
- See that all electrical material is earthed.



- Always be alert for all warning signs
- Contact your supplier before you wish to make changes that are not described.
- Do not use fastening material that is not supplied by your daybin supplier . This can cause problems or danger not insured by our calculations.
- Take care of an easy contact in case of problems (emergency, injuries...)
- Keep the daybin (and surroundings) free of :
  - \* mud
  - \* acid feed
  - \* metal scratch
  - \* contact with other metals (e.g. aluminum...)
- Make sure the supply is shut off when you do maintenance work at the daybin.
- See that you keep the Manual for Use and Installation at a well accessible safe spot, immediately consultable when needed.
- **NEVER** step on the roof sections.

NEVER OPEN ENTRY HATCH WHEN THERE IS FEED IN THE DAYBIN !!!		
	DANGER	

## USER DIRECTION - DAYBIN

All parts of daybin require little maintenance. You have to consider the used preservatives in the material stored. These could have a corrosive effect on the daybin.

Check regularly the daybin for corrosion and treat the affected parts. With heavy rust formation consult a specialist. In case of a rust degree of Ri4 (according to DIN 53 210) you can NO LONGER USE the daybin.

The daybin can be filled and emptied centrally only. All other methods have to be approved of in writing by the supplier.

You can only store following bulk materials in a daybin :

\* Concentrates according to DIN 1055.

\* Positive flowing feed with a specific weight of  $\leq 6.5 \text{ kN} / \text{m}^3$  ( $\leq 650 \text{ kg} / \text{m}^3$ ).

**ATTENTION:**

**SOYA COARSE MEAL, MEAT SCRAPS AND MANY OTHER MATERIALS ARE NOT FREE FLOWING.**

**YOU CANNOT STORE THESE MATERIALS IN THE DAYBIN !!!**



**WARNING**

Contact the supplier of the materials you store for information regarding cohesion and bridging possibility.

In case you do NOT use the daybin for a while see that it is empty and cleaned inside.

Snow load : according to DIN 1055 TS

Vertical weight on the roof of supports, tubes, scaffolds, platforms, etc... must not exceed 5kN (500kg).

Put the daybin at a minimum distance of 0.5m from existing buildings.

Check all received parts on damages and failures. Consult the Ordering instructions at the end of this manual.

Take into account following points when determining the location of your new daybin :

- Place of the existing buildings.
- Direction of the transport system to be used.
- Location of the peripheral equipment such as bin valve and other options.
- Location of the body section with sign.



**Inbouwverklaring betreffende niet voltooide machines** (*Richtlijn 2006/42/EG, Bijlage II.1.B*)  
**Declaration of incorporation of partly completed machinery** (*Directive 2006/42/EC, Annex II.1.B*)

Fabrikant/Manufacturer:  
Roxell, Industrielaan 13, 9990 Maldegem  
Tel: +32 50 72 91 72  
Fax: +32 50 71 67 21

Verklaart geheel onder eigen verantwoordelijkheid dat het product:  
Declares on its own responsibility that the product:

STORAGEline / STORAGEline plus Nr: 059...  
Metalen opslagsilo's voor opslag van veevoeder  
Metal storage bins for animal feed

Waarop deze verklaring betrekking heeft, in overeenstemming is met:

- de volgende richtlijnen: 2006/42/EG (Machinerichtlijn); 2014/30/EU (Elektromagnetische Compatibiliteit)
- de geharmoniseerde Europese Normen: EN ISO 13857:2008; EN 349:1993 + A1:2008; EN 547-1:1996 + A1: 2008; EN 547-2:1996 + A1: 2008; EN 547-3:1996 + A1: 2008; EN ISO 7250-1:2008; EN ISO 12100:2010; EN ISO 14122-1:2001; EN ISO 14122-2:2001; EN ISO 14122-3:2001; EN 60204-1:2006; EN 61439-1:2011; EN 61439-2:2011
- STORAGEline plus : DIBt Prüfbericht Nr. TP-09/003 & TP-11-009

**Het is verboden bovengenoemd product in gebruik te stellen voordat de machine waarin het wordt ingebouwd in overeenstemming met de bepalingen van de Machinerichtlijn is verklaard.**

Tevens verbindt de fabrikant (of zijn gemachtigde) zich om op met redenen omkleed verzoek van de nationale autoriteiten de relevante informatie over deze niet voltooide machine door te geven. De wijze van doorgifte is digitaal. De wijze van informatievervalsing laat de intellectueel-eigendomsrechten van de fabrikant van de niet voltooide machine onverlet.

(NL)

Relating to this declaration, is conform

- The following directives 2006/42/EC (Machinery Directive); 2014/30/EU (Electromagnetic Compatibility)
- The harmonised European standards: EN ISO 13857:2008; EN 349:1993 + A1:2008; EN 547-1:1996 + A1: 2008; EN 547-2:1996 + A1: 2008; EN 547-3:1996 + A1: 2008; EN ISO 7250-1:2008; EN ISO 12100:2010; EN ISO 14122-1:2001; EN ISO 14122-2:2001; EN ISO 14122-3:2001; EN 60204-1:2006; EN 61439-1:2011; EN 61439-2:2011
- ^ STORAGEline plus : DIBt Prüfbericht Nr. TP-09/003 & TP-11-009

**This product must not be put into service until the machinery into which it is to be incorporated has been declared in conformity with the provisions of the Machinery Directive.**

05900428

The manufacturer (or its agent) also undertakes, at the duly reasoned request of the national authorities, to provide the relevant information concerning this partly completed machinery. The method of transmission will be digital. The manner in which the information is provided does not prejudice the manufacturer's intellectual property rights concerning the partly completed machinery  
(EN)

Plaats, Datum / Place, Date : Maldegem, 20/04/2016

.....  
Dhr. Gino Van Landuyt  
Managing Director

"This part may only be filled out if all built-in subparts are delivered by Roxell"

**EG-verklaring van overeenstemming** (*Richtlijn 2006/42/EG, Bijlage II.1.A*)  
**EC-declaration of conformity** (*Directive 2006/42/EC, Annex II.1.A*)

Wij/We \_\_\_\_\_  
(naam installateur/name fitter)

\_\_\_\_\_  
(volledig adres en land/complete address)

Verklaren geheel onder eigen verantwoording de  
Declare completely on own justification that

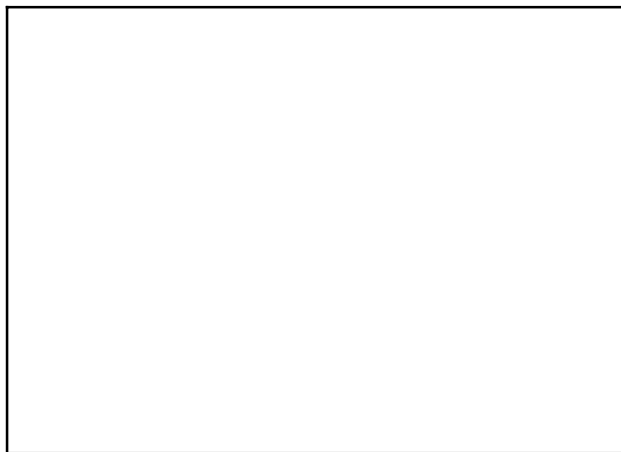
\_\_\_\_\_  
(naam machine/name machinery) (nummer CE-label/number CE-label)

In een installatie te hebben ingebouwd geheel volgens de Roxell-voorschriften en in overeenstemming met de bepalingen van de Machinerichtlijn.  
Has been incorporated in conformity with the provisions of the Machinery Directive and the prescriptions of Roxell bvba.

\_\_\_\_\_  
(plaats, datum/place, date) (naam, handtekening/name, signature)

De EG-verklaring van overeenstemming / inbouwverklaring betreft uitsluitend de machine of niet voltooide machine in de toestand waarin zij op de markt is gebracht, met uitsluiting van de later door de verdeler en/of installateur en/of eindgebruiker toegevoegde componenten en/of verrichte bewerkingen.

The EC-declaration of conformity / declaration of incorporation relates exclusively to the machinery or partly completed machine 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.



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