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*Installation and instruction manual*  
***Raised beds***

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## **PLEASE NOTE**

It is important that you read and understand the assembly and instruction manual prior to assembling and using the raised beds.

This is the only way to ensure proper use, prevent damage to the supplied product, and avoid injury.

Products manufactured by Richard Brink GmbH & Co. KG should not be used based solely on previous experience with similar components as our products can differ significantly in their application.

Please provide the installers tasked with assembling and using the product with this manual in good time and check they have read the information.

If you have any questions or doubts after reading the manual, please do not hesitate to contact us.

## **Customer service**

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## **INSTALLATION AND INSTRUCTION MANUAL: Richard Brink GmbH & Co. KG**

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## **1. General**

### **1.1 Introduction**

This assembly and instruction manual covers everything you need to know about the products and components. Their professional assembly and proper utilisation are key to ensuring long-term use without any damage or defects.

The following sections provide detailed information on the following topics:

- Materials
- Transport
- Assembly
- Scrap disposal

### **1.2 Materials**

The raised beds described in this manual are available in the following materials:

- Stainless steel (*V2A, polished on request*)
- Aluminium
- COR-TEN steel

Precautions should be taken to prevent damaging the delicate surface of these materials when assembling and using the beds.

### **1.3 Information for the user**

Any modifications to the components or intended use shall result in the loss of warranty and exclusion of liability on the part of Richard Brink GmbH & Co. KG.

The information provided in this assembly and instruction manual does not release the planners, the company carrying out the work or the user from their duty to independently check and appraise the raised beds, the local conditions and other relevant circumstances, also with an eye to the pertinent technical standards. Please contact the company Richard Brink GmbH & Co. KG should you have any doubts regarding the assembly and/or use of the products.

Please also refer to our technical data sheet.

## 2. Transport

### 2.1 Delivery

Upon accepting the delivered goods, please check that the components show no signs of transport-related damage. If you do notice any damage, please notify the freight carrier and responsible shipping company of this immediately. Do not install or use any damaged elements.

### 2.2 Unloading

As the delivery vehicle is not usually fitted with its own lifting device, the client should provide an appropriate means of unloading the components, i.e. a forklift truck or a crane (with a fork or lifting straps) with a load capacity of at least 1,000kg. A level set-up area able to take the load of the pallets should also be arranged.



#### Caution

##### Warning: falling pallets or items!

Please always check that the pallets are secure.  
Never attempt to support a falling pallet!



#### Warning

##### Warning: suspended loads!

Suspended loads pose a risk of injury.  
Do not stand under suspended loads!



Wear a hard hat!

### 2.3 Opening the packaging units

Before opening the packaging units, please ensure that their contents have been stacked securely and cannot fall down. If you are using any tools to open the packaging, please exercise particular caution to prevent elements from being damaged.

### 3. Handling

#### 3.1 General



**Please observe the following information**

**Failure to do so may result in injury.**

Appropriate protective clothing should be worn when handling the components on the construction site (*protective gloves, safety boots, etc.*). Edges may have burrs as a result of the manufacturing process. This is not a defect.



**Caution**

**Warning: sharp edges!**



Edges may have burrs as a result of the manufacturing process, which pose a risk of injury.



**Caution**

**Warning: sharp edges!**



Always exercise caution when handling components due to the risk of injury.

Fingers or other body parts could become jammed or otherwise injured.

Wear protective gloves!

The products should be used in accordance with this installation and instruction manual.

Please ensure that the products and selected materials fulfil the respective requirements (*load-bearing capacity of the substrate, etc.*)

Under no circumstances should damaged, old, previously used or expired products or materials be used.

Please observe the standards and regulations in effect at the installation site.

Written consent must be obtained from the company Richard Brink GmbH & Co. KG for any intended use not described in this manual and/or covered by the applicable standards and regulations.

### 3.2 Handling regulations for stainless steel components

- Stainless steel components should be protected against flying sparks caused by metal cutting and against flash rust.
- Please ensure that any tools used for cutting or grinding have not been contaminated by abrasion or non-stainless steel chips (*risk of corrosion*).
- If different materials are processed together, please check their compatibility with regard to potential contact corrosion.
- The use of materials that may have come into contact with (*salty*) sea air, sea water, (*dissolved*) road grit, chemicals that cause corrosion or other notable environmental influences should be checked and monitored.
- Regular cleaning is recommended to prevent the risk of corrosion and preserve the product's appearance. To this end, the gratings should be cleaned with a brush or, where appropriate, with a pressure washer. Channels should be flushed using a pressure washer.
- Please refrain from cleaning surfaces with a steam jet; instead, clean by hand using appropriate materials such as a cleaning cloth, hand brush or broom. Aggressive cleaning agents should be avoided entirely.

### 3.3 Handling regulations for aluminium components

- If different materials are processed together, please check their compatibility with regard to potential contact corrosion.
- The use of materials that may have come into contact with (*salty*) sea air, sea water, (*dissolved*) road grit, chemicals or other notable environmental influences should be checked and monitored.
- Under no circumstances should the material be exposed to any aggressive leaching from other materials.
- Please refrain from using abrasive and/or aggressive cleaning agents.
- Please refrain from cleaning surfaces with a steam jet; instead, clean by hand using a broom.
- Coatings may become damaged following direct contact with spray and/or salt water.

### 3.4 Handling regulations for COR-TEN steel components

- As a result of weathering, COR-TEN steel forms an especially dense barrier layer on its surface, under the actual rust layer, comprising sulphates and phosphates that protect the component from further corrosion.
- Despite being well protected by the rust patina, the material should still be handled with care to prevent damage to its surface.
- If different materials are processed together, please check their compatibility with regard to potential contact corrosion.
- The use of materials that may have come into contact with (*salty*) sea air, sea water, (*dissolved*) road grit, chemicals or other notable environmental influences should be checked and monitored.
- Under no circumstances should the material be exposed to any aggressive leaching from other materials.
- Please refrain from using abrasive and/or aggressive cleaning agents.
- Please refrain from cleaning surfaces with a steam jet; instead, clean carefully by hand using a broom or hand brush and ensure no damage is done to the rust patina.



## 4 Assembly

### 4.1 General installation instructions

The raised beds are divided into individual segments for quick and easy assembly. Thanks to the ready-made plug-in connections, the elements are simply fixed together and extended in line with the customer's needs.

The angled shape gives the beds the necessary amount of stability, which is increased further through the use of gusset plates where the segments connect. This makes sure the beds are able to withstand the pressure of the filled soil.

### 4.2 Assembly

A well compacted, levelled ground layer, ideally consisting of gravel/chippings, is required for the smooth assembly and long-lasting use of the raised beds.

The corners must be carefully aligned at right angles.

It is important that the raised beds are filled with soil in layers to prevent the walls from bulging. Each layer should be no more than 20cm deep. The condition of the beds should be checked after adding each layer.

#### Please note

– We recommend using tie rods from an installation height of 415mm to ensure the raised beds are sufficiently stable. The strips are screwed in place on the gusset plates that face each other inside the structure. Once fully assembled, the beds are filled with soil.

Image 1



- Tie rods with tie rod anchor trays are required for larger structures or special forms (e.g. U-shaped raised bed construction).
- Tie rods with tie rod trays (see image 2) are required when there is no way of securing the beds using tie rods on opposite sides. Counterpoints are always ensured in the case of free-form, U- or L-shaped beds.

Image 2



- We recommend gluing joints together using Sikaflex before filling the beds. The glue should be applied to the area between the gusset plate (outside) and the segment being inserted (inside). Gluing is imperative from an installation height of 700mm.
- Depending on the grain size of the selected soil, a fleece liner should be incorporated to prevent the soil from escaping where the individual components connect. If the raised beds are to be used on terraces, a fleece liner is indispensable, for example to ensuring the soil does not wash out through the bottom of the bed after heavy rainfall.

Image 3



**Caution**

If installed incorrectly, the components may not be able to support the loads acting upon them. If they collapse, they may cause injury or damage to vehicles or other objects.

## 5. Additional information

### 5.1 Obligations of the customer

Several safety-relevant obligations are outlined below and must be observed by the facility operator:

- The raised beds are to be assembled by qualified individuals only who possess the required technical skills and knowledge.
- This manual must be made available during on-site assembly and for maintenance purposes. Please make sure that all individuals entrusted with the product have read and understood the content of this manual.

#### **Please note**

Liability in the case of errors

In accordance with the statutory provisions, our liability is limited to damage arising from the product's intended use. We shall not be held liable for defects that cannot yet be identified according to the current state of the art or that are caused by force majeure, extreme weather or environmental conditions, e.g. exposure to aggressive substances (*leaching, cleaning agents, etc.*), or incorrect material combinations, etc.

Violations

- of safety and usage instructions
  - of information about special material and component properties
  - of the prohibition on unauthorised structural alterations and changes
  - of intended use, i.e. using products for purposes not approved by the manufacturer
- shall exclude our liability for consequences.

### 5.2 Scrap disposal

#### **Please note**

Scrap disposal

If the channel is scrapped following use, please observe any laws and provisions on disposal that are in force at the time.

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