

# **Quikdeck**

## Suspended Access System

### User guide



## Contents

|          |                                                                              |           |
|----------|------------------------------------------------------------------------------|-----------|
| <b>1</b> | <b>Introduction.....</b>                                                     | <b>4</b>  |
| 1.1      | About this user guide.....                                                   | 4         |
| 1.2      | Other relevant documents.....                                                | 4         |
| 1.3      | Conventions in this user guide.....                                          | 5         |
| <b>2</b> | <b>Safety .....</b>                                                          | <b>5</b>  |
| 2.1      | Intended use .....                                                           | 5         |
| 2.2      | General safety information .....                                             | 6         |
| 2.3      | Potential property damage.....                                               | 9         |
| 2.4      | Obligations of the operator .....                                            | 10        |
| 2.5      | Personnel qualification .....                                                | 11        |
| 2.6      | Structure and characteristics of the information on hazards to persons ..... | 12        |
| 2.7      | Structure and characteristics of the information on property damage.....     | 12        |
| 2.8      | Safety devices and protective equipment .....                                | 12        |
| <b>3</b> | <b>System overview .....</b>                                                 | <b>15</b> |
| <b>4</b> | <b>Components.....</b>                                                       | <b>16</b> |
| 4.1      | Joists .....                                                                 | 16        |
| 4.2      | Node.....                                                                    | 18        |
| 4.3      | Deck Covers.....                                                             | 18        |
| 4.4      | Deck Supports .....                                                          | 19        |
| 4.5      | Decks .....                                                                  | 20        |
| 4.6      | Retainers .....                                                              | 21        |
| 4.7      | Toe Boards.....                                                              | 21        |
| 4.8      | Corner Toe Boards and Infills .....                                          | 23        |
| 4.9      | Railings.....                                                                | 25        |
| 4.10     | Mounting parts.....                                                          | 27        |
| 4.11     | Elements for securing Quikdeck to load-bearing structures.....               | 28        |
| 4.12     | Concrete anchors .....                                                       | 30        |
| 4.13     | Hoisting and suspension chains .....                                         | 31        |
| 4.14     | Chain retainer .....                                                         | 32        |
| 4.15     | Chain Couplers.....                                                          | 32        |
| 4.16     | Other means of suspension .....                                              | 32        |
| 4.17     | Tools .....                                                                  | 33        |
| 4.18     | Accessories .....                                                            | 33        |
| <b>5</b> | <b>Starter platforms.....</b>                                                | <b>35</b> |
| <b>6</b> | <b>Standard layouts.....</b>                                                 | <b>41</b> |
| 6.1      | Standard layout 1.....                                                       | 42        |
| 6.2      | Standard layout 2.....                                                       | 46        |
| 6.3      | Standard layout 3.....                                                       | 50        |
| 6.4      | Non-standard layouts.....                                                    | 54        |
| <b>7</b> | <b>Securing the platform to load-bearing structures .....</b>                | <b>58</b> |
| 7.1      | Special applications .....                                                   | 59        |
| <b>8</b> | <b>Assembling Quikdeck.....</b>                                              | <b>60</b> |
| 8.1      | Preparing for assembly .....                                                 | 60        |
| 8.2      | Attaching to the load-bearing structure .....                                | 61        |
| 8.3      | Assembling starter platform .....                                            | 64        |

|           |                                                                |            |
|-----------|----------------------------------------------------------------|------------|
| 8.4       | Hoisting starter platform .....                                | 70         |
| 8.5       | Suspending starter platform .....                              | 73         |
| 8.6       | Expanding starter platform .....                               | 85         |
| 8.7       | Securing platform.....                                         | 91         |
| 8.8       | Alternative attachment points on load-bearing structures ..... | 98         |
| 8.9       | Using optional parts .....                                     | 98         |
| <b>9</b>  | <b>Notes on use .....</b>                                      | <b>119</b> |
| 9.1       | Relocating platform .....                                      | 119        |
| 9.2       | Checking condition of platform.....                            | 119        |
| 9.3       | Using scaffolds on Quikdeck .....                              | 119        |
| <b>10</b> | <b>Disassembling the platform.....</b>                         | <b>122</b> |
| 10.1      | Preparing for disassembly .....                                | 122        |
| 10.2      | Disassembling the platform.....                                | 122        |
| 10.3      | Verifying all parts are in serviceable condition .....         | 126        |
| <b>11</b> | <b>Storing components.....</b>                                 | <b>126</b> |
| 11.1      | Storing components ready for use.....                          | 126        |
| 11.2      | Storing damaged components.....                                | 127        |
| 11.3      | Having damaged components repaired.....                        | 127        |
| <b>12</b> | <b>Maintenance and upkeep.....</b>                             | <b>128</b> |
| 12.1      | Maintenance schedule .....                                     | 128        |
| 12.2      | Performing maintenance.....                                    | 129        |
| <b>13</b> | <b>Load placards.....</b>                                      | <b>132</b> |
| <b>14</b> | <b>Chronology.....</b>                                         | <b>135</b> |

## 1 Introduction

### 1.1 About this user guide

This user guide describes the safe assembly and use of the HÜNNEBECK Quikdeck® Suspended Access System. The HÜNNEBECK Quikdeck® Suspended Access System is referred to as “Quikdeck” in this user guide.

This user guide is intended for commercial users with appropriate technical training. The information and procedures described here comply with the laws and the occupational health and safety regulations of Germany and Austria. HÜNNEBECK accepts no responsibility for the use of this user guide outside this area of application.

Read this user guide carefully before working with the product. Keep the user guide for future reference.

The user guide is an essential component of Quikdeck. It contains safety notes, information on the standard configuration, the intended use and a description of the system.

Carefully follow the instructions on use and assembly of the equipment (standard configuration) contained in the user guide. Enhancements, deviations or changes represent a potential risk. They therefore require separate verification (with the help of a risk assessment) or a set of assembly instructions which comply with the relevant laws, standards and safety regulations. The same applies in cases where falsework and accessory components are provided on site.

We explicitly reserve the right to make changes resulting from technical improvements.

#### 1.1.1 Availability of the user guide

The contractor has to ensure that site personnel are familiar with the user guide provided by HÜNNEBECK and that it is readily accessible at all times. The user guide must be legible and complete. A replacement user guide can be obtained from HÜNNEBECK.

### 1.2 Other relevant documents

In addition to this user guide, there are other documents that are relevant to proper and safe use of the system. Follow the instructions and observe the notes contained in such documents. This applies particularly to the following documents:

- Data sheets for the components
- Documents included with delivery of the system, e.g. drawings on how to attach personal fall protection
- Risk assessment and operator's assembly instructions
- Specifications on the content of operator's assembly instructions
- Operating instructions issued by the manufacturer of the tensioner used
- Operating instructions issued by the manufacturer of the hoist used

For the safety-related application and use of the products, all current country-specific laws, standards as well as other safety regulations are to be complied with, without exception. They form a part of the obligations of employers and employees regarding industrial safety. This results in, among other things, the responsibility of the contractor to ensure the safe suspension of the platforms during all stages of construction. This also includes basic assembly, dismantling and transport. Inspect the entire structure during and upon completion of assembly.

## 1.3 Conventions in this user guide

Various elements of this document are provided with defined design features. This makes it possible to easily distinguish between the following elements:

Normal text

- Lists
- Secondary lists

Instructions are always identified with the word "Step," e.g.

**Step 1** Insert the locking bolt into the bore from the outside.

**Step 2** Secure the bolt with the spring pin.

### TIP

#### Tip!

A tip shares practical experience with the user, e.g. how to perform a task more easily or quickly.

## 2 Safety

### 2.1 Intended use

The Quikdeck suspended access system is a technical work equipment which is intended exclusively for commercial use in the following areas of application:

- As a longitudinal or area oriented suspended scaffold according to DIN 4420-3 for work performed below fixed structures
- As working scaffold limited to load class 4. The load class is according to BS EN 12811 (300 kg/m<sup>3</sup>)
- Only the components shown in this User Guidew may be used in the described standard layouts
- All resulting anchor loads for the standard layouts are stated in this user guide
- All assemblies which differ from the standard layouts has to be checked with structural calculation for each individual case. All other suspension and anchoring which differs has to be checked individually as well

Only undamaged original Quikdeck parts from BRANDSAFWAY and HÜNNEBECK may be used. All components must therefore be visually inspected for origin and damage before installation and replaced with original parts if necessary. Repairs may only be carried out by HÜNNEBECK. The user must not make any changes to Quikdeck components. The illustrations shown in the instructions are partly based on assembly conditions and are not always complete from a safety point of view. Any safety devices not shown in these illustrations must nevertheless be present.

The assembly (erection) and dismantling of the Quikdeck work platform may only be carried out by competent persons who have sufficient technical knowledge and are suitable for handling it. This work must be supervised by a technically qualified supervisor to be determined by the contractor. This work must also be supervised by a supervisor who must ensure that it is carried out safely and who has sufficient knowledge and experience to do so. This also includes object-related instruction which refers to special hazardous situations (risk assessment). When using personal fall protection (fall protection PPE ), the supervisor must determine the appropriate attachment point and ensure that employees use personal protective equipment against falls from a height.

## 2.2 General safety information

### 2.2.1 Risk of fatal injury

#### **Risk of fatal injury from using damaged or unsuitable components!**

Damaged components may result in a diminished load rating or failure of Quikdeck components.

- Check that all components are in serviceable condition before use and at the specified intervals.
- Do not use damaged or unsuitable components.
- Ensure that the Quikdeck components are protected from potentially harmful factors.
- Contact HÜNNEBECK if there are any doubts about potentially harmful factors.
- Have damaged components repaired immediately or replace damaged components with new ones of the same type.
- Dispose of damaged components that cannot be repaired.

Only components that meet the requirements specified in the section *Intended use* are suitable.

Do not repair, modify or alter any Quikdeck components without written permission from HÜNNEBECK.

#### **Risk of fatal injury due to unauthorised modification or replacement of Quikdeck components!**

Replacing or modifying components may result in a risk of falling due to component failure.

- Use only components that are suitable for Quikdeck.
- Do not make any changes to components without the express consent of HÜNNEBECK.
- Do not repair any components.
- Replace damaged components with new ones of the same type.

Only components that meet the requirements specified in the section *Intended use* are suitable.

#### **Risk of fatal injury when components intended to be used only once are used multiple times!**

Various components may be used only once. Otherwise there is a risk that these components may fail.

- Ensure that single-use components are not re-used.
- After removal/disassembly, replace these components with new ones of the same type.
- Dispose of the used components in compliance with local regulations.

#### **Risk of fatal injury if Quikdeck is assembled incorrectly!**

Incorrect assembly of components can lead to a risk of falling due to component failure.

- Assemble the components only as described and shown in this user guide, or demonstrate alternatives by means of a suitable risk assessment.
- All lifting and hoisting equipment must comply with all the relevant regulations and standards and must be able to take all of the required loads.
- Ensure that the load rating of the components is not exceeded.

- When assembling the equipment, observe and follow all legal regulations and other directives applicable at the place of use as well as the operator's assembly instructions.
- Ensure that only suitably qualified persons assemble the Quikdeck equipment.
- Have Quikdeck checked by a qualified person after assembly.

Information on the load limits applicable to the various components can be found beginning on page 16. Information on the qualifications required can be found in the Section **Personnel qualification** on page 11.

#### **Risk of fatal injury if Quikdeck is disassembled incorrectly!**

Incorrect disassembly of components can lead to a risk of falling due to component failure.

- Assemble the components only as described and shown in this user guide, or demonstrate alternatives by means of a suitable risk assessment.
- Follow the same safety procedures as when assembling Quikdeck.
- Ensure that the load rating of the individual components is not exceeded.
- Secure detached components to prevent them from falling.
- Observe and follow all legal regulations and other directives applicable at the place of use as well as the assembly instructions of the operator.
- Ensure that only suitably qualified persons disassemble the Quikdeck equipment.
- Make sure that all areas of the Quikdeck system that are not secured by a properly installed and complete guard rail (unsecured area) are clearly separated from the secured areas by a temporary barrier.
- Ensure that all persons working or standing on unsecured areas of Quikdeck use suitable personal fall protection.

For information about the standard and non-standard layouts, see page 41.

#### **Risk of fatal injury in the event of falling from Quikdeck due to missing components or mounting parts!**

Missing, damaged, incorrectly or inadequately fastened mounting parts may cause falls from Quikdeck due to a diminished load rating.

- Do not use any damaged components.
- Ensure that all barriers, decks and guard rails are fitted to Quikdeck as described and illustrated in this user guide.
- Verify that all mounting parts are securely attached.
- Ensure that all persons working or standing on unsecured areas of Quikdeck use suitable personal fall protection.

Information on the qualifications required can be found in Section **Safety devices and protective equipment** on page 12.

#### **Risk of fatal injury in the event of falling from Quikdeck due to missing or incorrectly mounted fall protection!**

- Make sure that all areas of the Quikdeck system that are not secured by a properly installed and complete guard rail (unsecured area) are clearly separated from the secured areas by a temporary barrier.
- Anyone entering an area of the Quikdeck system that is not properly secured with complete guard rails must use additional and separate fall protection to prevent falling from the platform.

- Attach the personal fall protection (harness) to suitable, load-bearing structures that are independent of Quikdeck.
- Ensure that, when the wind speed creates a velocity pressure greater than 0.2 kN/m<sup>2</sup> (65 km/h), no one is permitted to work on or near Quikdeck, unless certification has been provided for this specific application.

**Risk of fatal injury due to single platforms or the entire Quikdeck collapsing if the load limits are exceeded!**

Components can come loose and fall off if Quikdeck is subjected to excessive load.

- Attach Quikdeck only to structures that can bear the total weight of Quikdeck as well as of all loads to which the system is subjected.
- Assemble the components only as described and shown in the standard layouts presented in this user guide, or demonstrate alternatives by means of a suitable risk assessment.
- Ensure that the load rating of the components is not exceeded.
- Use only components that are suitable for Quikdeck.
- Whenever the traffic of people occurs under the Quikdeck platform, measures have to be taken to guarantee the safety of those people, during the construction use and dismantle of the platform. Local requirements may apply such as DIN 4420-3.
- Ensure that all persons standing on and under Quikdeck are wearing hard hats.
- Only build and use Quikdeck platforms in accordance to the information shown in the standard layout section of this user guide. For different applications, the platform has to be verified by means of static calculations prior to the build.
- Make sure that all load-bearing components and fasteners can support the anticipated load and are not overloaded.

Individual components or fasteners that are not loaded are an indication of uneven load distribution. This can lead to excessive strain on other components.

Only components that meet the requirements specified in the section *Intended use* are suitable.

**Risk of fatal injury due to components falling from Quikdeck if the load limits are exceeded!**

Components can come loose and fall off if Quikdeck is subjected to excessive load.

- Assemble the components only as described and shown in the standard layouts presented in this user guide.
- Ensure that the load rating of the components is not exceeded.
- Use only components that are suitable for Quikdeck.
- Whenever the traffic of people occurs under the Quikdeck platform, measures have to be taken to guarantee the safety of those people, during the construction use and dismantle of the platform. Local requirements may apply such as DIN 4420-3.
- Ensure that all persons standing on and under Quikdeck are wearing hard hats.
- Only build and use Quikdeck platforms in accordance to the information shown in the standard layout section of this user guide. For different applications, the platform has to be verified by means of static calculations prior to the build.

Only components that meet the requirements specified in the section *Intended use* are suitable.

### 2.2.2 Risk of serious or fatal injury

#### **Risk of serious and fatal injury due to components being loosened by the wind!**

Components can come loose and fall off if Quikdeck is subjected to excessive load caused by wind.

- Assemble the components only as described and shown in this user guide, or demonstrate alternatives by means of a suitable risk assessment.
- Attach the restraints only to the nodes or the hoist attachment points on the Joists.
- Have a qualified person determine the load to which the restraints on Quikdeck are subjected based on local conditions.
- If necessary, attach additional restraints.
- Verify that no innocent bystanders are standing under Quikdeck.
- Ensure that all persons standing on and under Quikdeck are wearing hard hats.

#### **Risk of serious and fatal injury from falling objects!**

Components that are not properly secured or material stored on Quikdeck may fall off and cause serious injury.

- Secure all components properly and as described in this user guide.
- Always comply with the torque values stated in this user guide.
- Ensure that all mounting parts are securely attached.
- Store materials only in areas of Quikdeck intended for this purpose.
- Properly secure material stored on Quikdeck.
- Do not exceed the load rating of Quikdeck.
- When lifting Quikdeck, lift it evenly to prevent tilting.
- Always attach Toe Boards to the outer edges of Quikdeck
- Verify that no innocent bystanders are standing under Quikdeck.
- Ensure that all persons standing on and under Quikdeck are wearing hard hats.

Instructions indicating where material can safely be stored on Quikdeck can be found beginning on page 35.

#### **Risk of serious and fatal injury from electric shock!**

Using Quikdeck near power lines can lead to fatal electric shock.

- Only erect Quikdeck near power lines when they have been de-energised and secured to prevent them from being energised without authorisation.

### 2.2.3 Risk of injury

#### **Risk of injury from objects falling onto Quikdeck!**

Unsecured objects above Quikdeck can fall and cause injury or property damage.

- Ensure that objects above Quikdeck are secured against falling.
- If necessary, install additional safety devices above Quikdeck.

## 2.3 Potential property damage

#### **Incorrect assembly can result in damage to Nodes and Joists!**

Before the Plyform Decks have been fastened into place, unsecured starter platforms or accessories can twist. This can cause damage to components.

- Insert the Hitch Pin into the Joist.

- Do not remove the Hitch Pin until the Plyform Decks are secured.

### **Components can be damaged if they swing when lifted!**

Loads that are not properly secured can swing around when lifted.

- Use guiding ropes with a sufficient load rating to secure components before lifting them.

The load rating is a factor of conditions on site, particularly wind speed and direction.

## **2.4 Obligations of the operator**

The operator must ensure that only personnel with knowledge and experience in the use of Quikdeck and all relevant safety regulations work on and with Quikdeck. All other persons may only access Quikdeck under the direct supervision and instruction of a person with this knowledge.

### **2.4.1 Responsible supervisor**

The operator must ensure that all work is carried out under the supervision of a specially trained person. This person must have knowledge and skills in the following areas:

- Accident prevention measures
- Determination and estimation of the load limits of Quikdeck, taking into account all relevant factors and regulations
- Assessment of the risk of collapse or falling parts due to excessive wind speed

### **2.4.2 Preparing a risk assessment and assembly instructions.**

The operator must prepare a risk assessment and assembly instructions for the specific application. The risk assessment and the assembly instructions have to cover all components of the platform, including components provided by external suppliers.

The assembly instructions must contain precise specifications for the specific application. It is essential that they contain the following points:

- Calculation of the loads in the current case
- Assessment of the hazard potential at the point of use
- Determination of danger areas in the specific application
- Specification of suitable safety measures and protective equipment
- Method in which the load-bearing structure is suspended
- Type, quantity and positions of the hoist attachment points on the load-bearing structure

This user guide does not replace the design scheme(s) or the risk assessment.

The operator is responsible for the compilation, documentation, implementation and revision of a risk assessment for each construction site. His employees are obliged to implement the resulting measures in accordance with all legal requirements.

The operator is responsible for compiling design schemes that contain specifications for the specific application. The user guide is a fundamental basis for the assembly instructions. HÜNNBECK can provide further specifications and calculation bases for this on request.

### **2.4.3 Keeping user guide available**

The contractor has to ensure that site personnel are familiar with the user guide provided by HÜNNBECK and that it is readily accessible at all times. The user guide must be legible and complete. A replacement user guide can be obtained from HÜNNBECK.

#### **2.4.4 Carrying out measures on site**

The operator must observe all applicable regulations for the specific location. In particular, he is obligated to carry out or initiate the following measures:

- Create a rescue plan specifying rescue systems, procedures, aspects relevant to the specific location and assignment of responsibilities.
- Provide safety equipment (rescue set, PPE, personal fall protection).
- Define areas for storing materials.
- Contact local authorities/counterparts (e.g. rescue organisation, site manager, utility companies, etc.) and coordinate activities with them.

### **2.5 Personnel qualification**

#### **2.5.1 All persons**

Anyone working on Quikdeck must possess at a minimum the following qualifications:

- Awareness of the potential risks of working on scaffolds and platforms and at heights; the ability to recognise such hazards; and knowledge of the proper measures to avoid danger
- Knowledge of what to do in the event of an accident (secure accident site, rescue persons, first aid)
- Knowledge of how to properly use personal fall protection
- Ability to recognise hazards associated with working on Quikdeck

#### **2.5.2 Assemblers**

Anyone assembling Quikdeck or performing any type of work to Quikdeck must have at a minimum the following qualifications:

- Qualification as a scaffolder or comparable
- Training provided by HÜNNEBECK to learn about safe assembly, use and disassembly of Quikdeck.

#### **2.5.3 Supervisors and qualified persons**

Persons designated by the operator as supervisors must possess the following additional skills and experience:

- Supervision of work on and with Quikdeck
- Knowledge or relevant local regulations and laws related to the specific application
- Certification of special training, conducted by HÜNNEBECK, on how to handle Quikdeck
- Qualified persons must also meet local requirements such as the German technical rule TRBS 1203 for example.

#### **2.5.4 Designer**

Persons who plan the erection and use of Quikdeck must also possess the following skills and experience:

- Calculation of the loads in the current case.
- Assessment of the hazard potential at the point of use.
- Determination of danger areas in the specific application.
- Specification of suitable safety measures.
- Knowledge of the existing load bearing structure to be used for anchor, suspension points, etc.

- Calculation of how the wind impacts the stability and load rating.
- Knowledge of legal and other regulations related to planning that apply at the place of use
- Compiling of assembly instructions for the specific application

## 2.5.5 Maintenance personnel and inspectors

Person responsible for inspecting, maintaining/repairing and storing the components must also possess the following skills and experience:

- Detection of material deficiencies (material testing, inspection)
- Assessment of usability
- Safe storage and transportation of components
- What to do in the event that components are unusable

## 2.5.6 Training

HÜNNEBECK recommends that anyone working on or with Quikdeck, the hoists and the suspenders complete the training program for Quikdeck systems. HÜNNEBECK reserves the right to insist on regular refresher courses.

## 2.6 Structure and characteristics of the information on hazards to persons

|                                                                                                   |                                                                                                                      |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
|  <b>DANGER</b>   | <b>DANGER!</b><br>DANGER indicates a hazardous situation that, if not avoided, will cause death or serious injury.   |
|  <b>WARNING</b> | <b>WARNING!</b><br>WARNING indicates a hazardous situation that, if not avoided, can cause death or serious injury.  |
|  <b>CAUTION</b> | <b>CAUTION!</b><br>CAUTION indicates a hazardous situation that, if not avoided, can cause minor or moderate injury. |

## 2.7 Structure and characteristics of the information on property damage

|             |                                                                         |
|-------------|-------------------------------------------------------------------------|
| <b>NOTE</b> | <b>NOTE!</b><br>NOTE indicates a hazard that can cause property damage. |
|-------------|-------------------------------------------------------------------------|

## 2.8 Safety devices and protective equipment

### 2.8.1 Railing on Quikdeck

Quikdeck may be used only when the railing is properly installed. Additional information can be found beginning on page 25 and page 93. Areas in which the railing has been removed temporarily must be clearly cordoned off from the secured areas.

### 2.8.2 Rescue set

The rescue set is used to rescue persons who have had an accident and are suspended by the personal fall protection. The operator has to have in place a rescue concept that takes into consideration the conditions on site.

### 2.8.3 Personal protective equipment (PPE)

Personal protective equipment (PPE) must be used for all work on and with Quikdeck. The PPE has to comply with the regulations applicable at the place of use for the

work to be carried out. The supervisor appointed by the operator shall ensure that the appropriate PPE is available and worn by all persons in the hazardous area.

The PPE always consists of at least the following components:

- Safety helmet
- Safety glasses
- Safety gloves
- Safety shoes.

The operator must specify further components of the PPE in the assembly instructions for the specific application and the work to be performed.

#### 2.8.4 Personal fall protection

Using personal fall protection for all work in the unsecured area of Quikdeck is imperative. The personal fall protection has to continue to be used until the platform is secured with a railing to prevent falling. The personal fall protection has to comply with the regulations applicable at the place of use for the work to be carried out.

The points to which the personal fall protection is attached should be selected to meet the following conditions:

- When a person falls, no part of his body should collide with a component lower in the structure and he should not fall all the way to the ground.
- The points to which the device is secured must comply with specifications issued by the manufacturer of the personal fall protection.

#### TIP

If an attachment point is chosen that is at the same height as where the person to be secured is standing, the length of the line between the PPE and the attachment point may not exceed 2.0 m (including the shock absorber).

#### Attachment points when assembling Quikdeck:

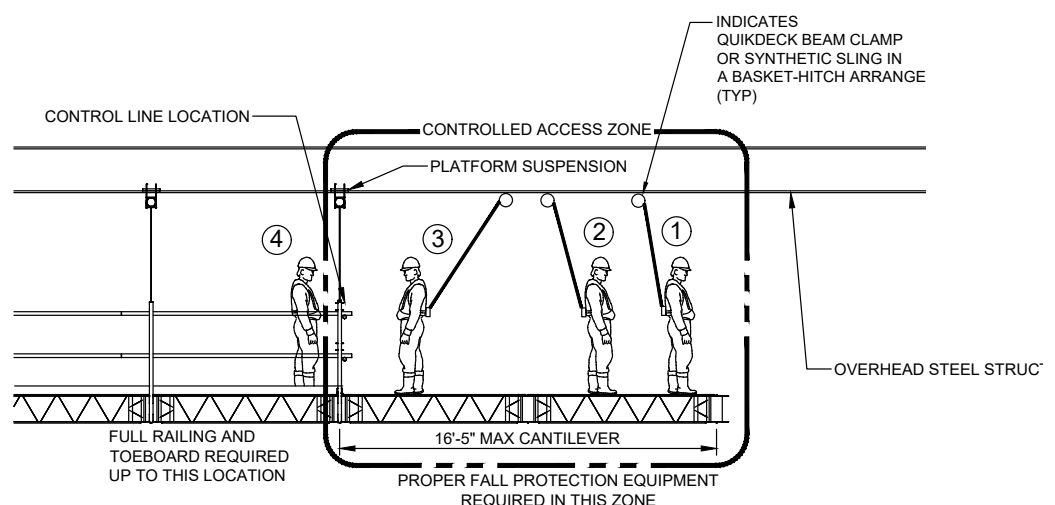


#### DANGER

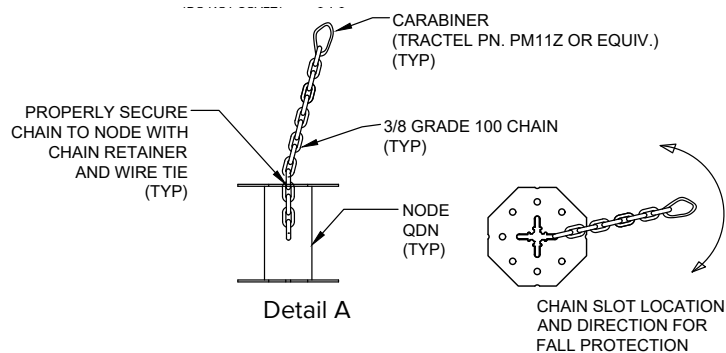
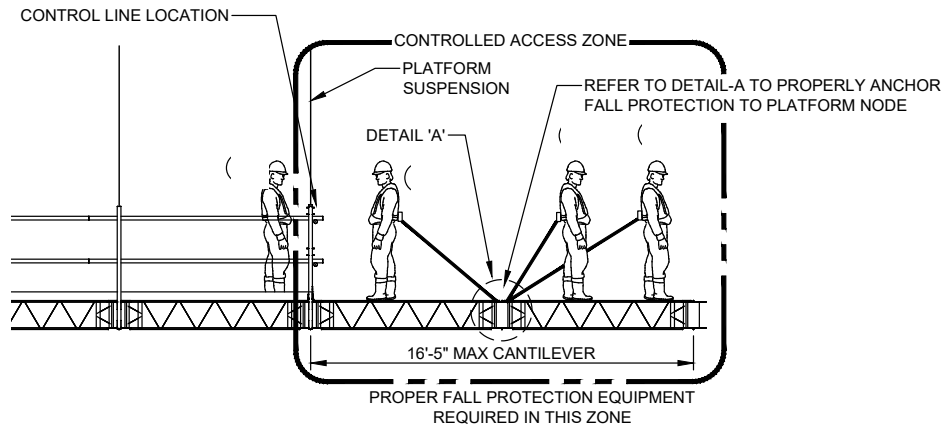
#### Danger of serious or fatal injury!

Do not use any other attachment point other than the ones shown below.

#### Preferred Method: Connecting to overhead Steel



## Alternate Method: Connecting to interior platform node



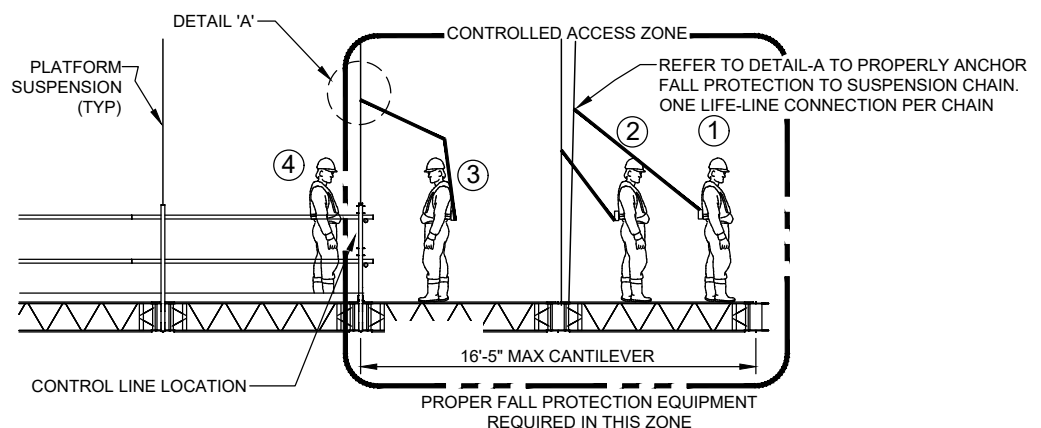
## WARNING

### WARNING!

Properly secure fall protection anchorage to interior nodes only!

Do not secure fall protection to perimeter node!

## Alternate Method: Connecting to suspension chains



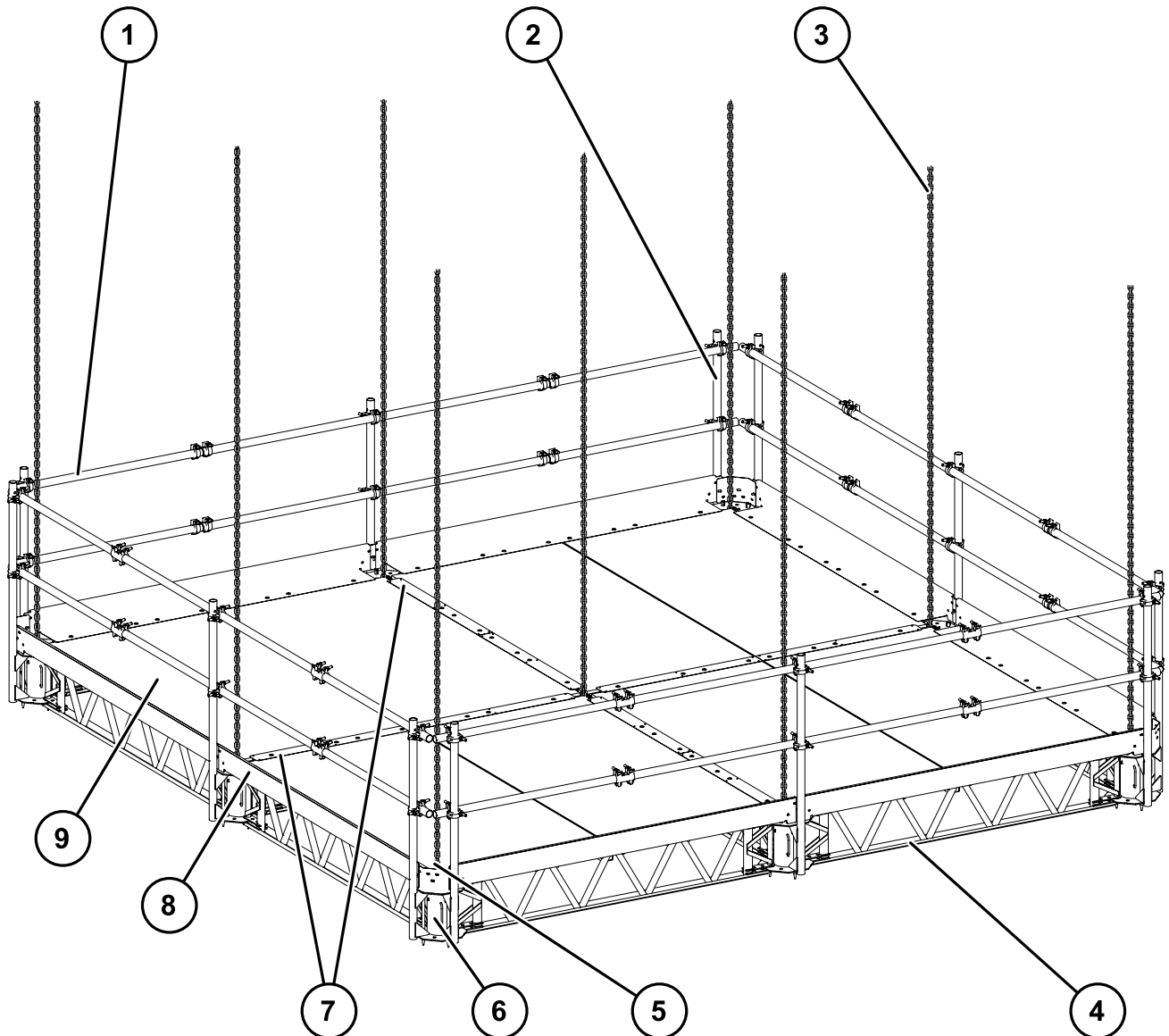
For more information regarding suitable attachment points for the personal fall protection on Quikdeck contact HÜNNEBECK.

In addition to the personal fall protection, a suitable system or procedure is required for rescuing a person whose fall has been arrested by the personal fall protection. The rescue concept has to comply with the regulations applicable at the place of use for the work to be carried out.

### 3 System overview

Quikdeck is a system from which a work platform can be built applying a modular concept. The work platform is then suspended from load-bearing structures and can be adapted to the specific application.

The modular concept allows sections of the platform to be shifted to where they are needed. So components can be removed from areas where work has been completed and then installed where the work is to resume. This allows the size of the platform to be limited to what is needed for the work to be performed. This reduces the amount of materials needed and the weight applied to the load-bearing structure.

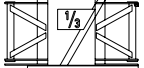
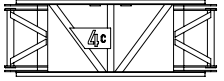
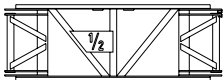
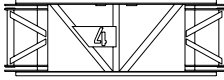
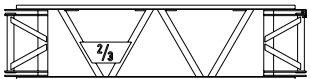
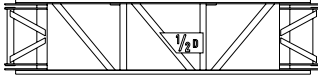
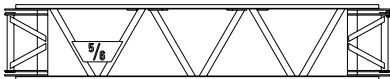
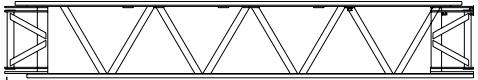
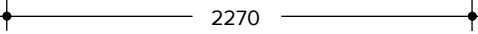


| Item number | Designation      | Description | Assembly |
|-------------|------------------|-------------|----------|
| 1           | Railing          | Page 25     | Page 93  |
| 2           | Railing Post     | Page 25     | Page 93  |
| 3           | Suspension chain | Page 31     | Page 74  |
| 4           | Joist            | Page 16     | Page 64  |
| 5           | Chain retainer   | Page 32     | Page 70  |
| 6           | Node             | Page 18     | Page 64  |
| 7           | Retainers        | Page 21     | Page 69  |
| 8           | Toe Boards       | Page 21     | Page 93  |
| 9           | Deck             | Page 20     | Page 69  |

## 4 Components

### 4.1 Joists

The Joists are the primary structural component of Quikdeck. The Joists are connected to another with Nodes, forming a grid for Deck Supports and Plyform Decks.

|                                                                                     | Component                                | Part code | Weight [kg] |
|-------------------------------------------------------------------------------------|------------------------------------------|-----------|-------------|
|    | QD Joist 1/6 (42 cm)                     | QDJ16     | 5.90        |
|                                                                                     | QD Joist 1/3 (83 cm) with Nuts           | QDJ13     | 14.10       |
|    | QD Joist 4C (123 cm) with Nuts           | QDJ4C     | 20.00       |
|                                                                                     | QD Joist 1/2 (125 cm) with Nuts          | QDJ12     | 20.00       |
|    | QD Joist 4' (128 cm) with Nuts           | QDJ4      | 20.00       |
|                                                                                     | QD Joist 2/3 (168 cm) with Nuts          | QDJ23     | 22.20       |
|    | QD Diagonal Joist 1/2 (177 cm) with Nuts | QDJ12D    | 24.00       |
|                                                                                     | QD Diagonal Joist 5/6 (208 cm) with Nuts | QDJ56     | 26.80       |
|   | QD Joist 7' (213 cm) with Nuts           | QDJ7      | 30.39       |
|                                                                                     | QD Joist 8' (250 cm) with Nuts           | QDJ8      | 33.10       |
|  |                                          |           |             |
|  |                                          |           |             |
|  |                                          |           |             |
|  |                                          |           |             |
|  |                                          |           |             |
|  |                                          |           |             |

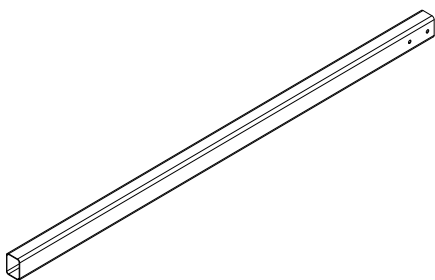
2270

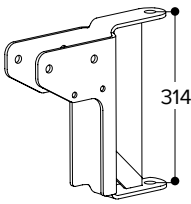
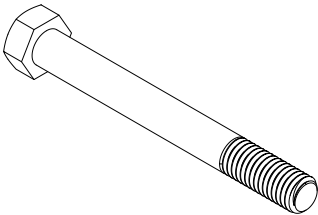
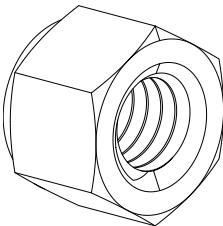
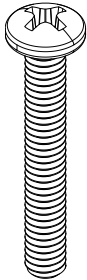
#### QD Cut-to-Fit Joist Tube

QDJCT

18.60

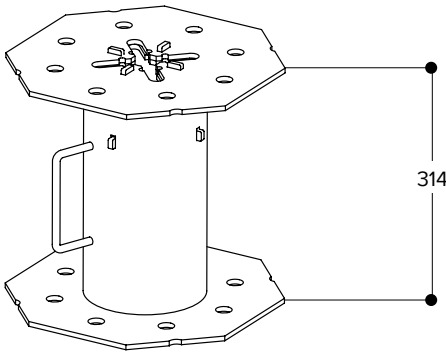
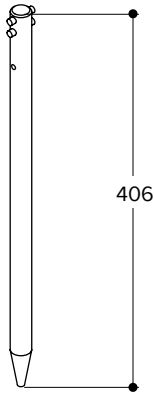
Cut-to-Fit Joist Tubes QDJCT may be used only in agreement with HÜNNBECK. HÜNNBECK must approve them for the specific application.



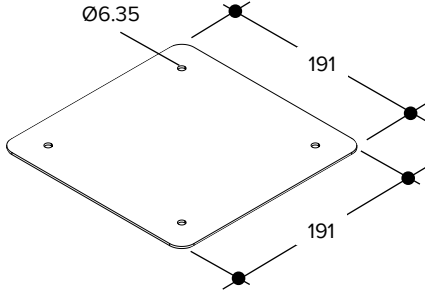
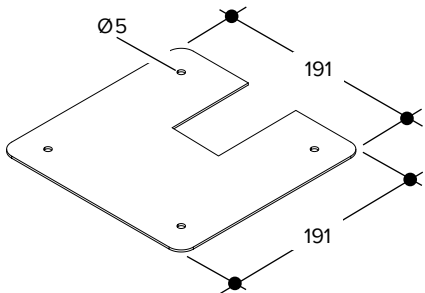
|                                                                                     | Component                                                                                                                                                            | Part code       | Weight [kg] |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|
|    | <b>QD Cut-to-fit Joist End</b>                                                                                                                                       | <b>QDJCE</b>    | <b>4.10</b> |
|    | <b>QD Bolt HX 1/2-13 x 4.5 A449 PLT</b><br>Used in conjunction with the QD Nut ESN 1/2-13 PLT to secure the QD Cut-to-Fit Joist Tube to the QD Cut-to-Fit Joist End. | <b>99-E0075</b> | <b>0.14</b> |
|   | <b>QD Nut ESN 1/2-13 PLT</b><br>Used in conjunction with the QD Bolt HX 1/2-13 x 4.5 A449 PLT to secure the QD Cut-to-Fit Joist Tube to the QD Cut-to-Fit Joist End. | <b>99-E0250</b> | <b>0.05</b> |
|  | <b>QD Screw TEK 12 x 1.5</b><br>Used to connect the ply to the QD Cut-to-Fit Joist Tube.                                                                             | <b>99-E0526</b> | <b>0.05</b> |

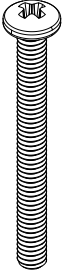
## 4.2 Node

The Nodes and Node Pins are used to connect the Joists to one another. And the chains that lift the starter platform and suspend the work platform are also secured with the Nodes.

|                                                                                    | Component          | Part code   | Weight [kg]  |
|------------------------------------------------------------------------------------|--------------------|-------------|--------------|
|   | <b>QD Node</b>     | <b>QDN</b>  | <b>12.20</b> |
|  | <b>QD Node Pin</b> | <b>QDNP</b> | <b>0.90</b>  |

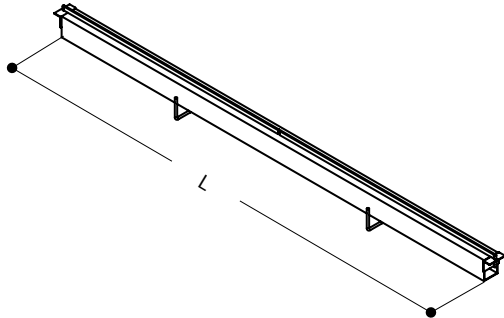
## 4.3 Deck Covers

|                                                                                     | Component                                                                      | Part code    | Weight [kg] |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------|-------------|
|  | <b>QD Node Cover</b><br>Used to cover nodes with no suspension points.         | <b>QDNC</b>  | <b>0.45</b> |
|  | <b>QD Node Cover With Slots</b><br>Used to cover nodes with suspension points. | <b>QDNCS</b> | <b>0.45</b> |

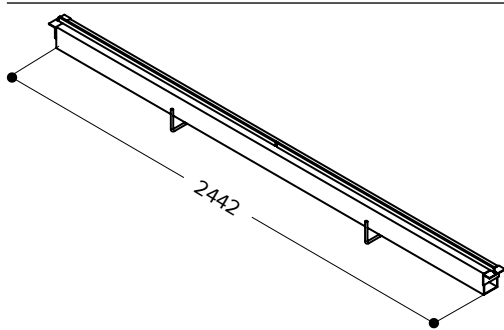
|                                                                                   | Component                            | Part code       | Weight [kg] |
|-----------------------------------------------------------------------------------|--------------------------------------|-----------------|-------------|
|  | <b>QD SCRW BUGLE H PHIL #8X1-5/8</b> | <b>99-21450</b> | <b>0.05</b> |
|                                                                                   | Used to secure the node covers.      |                 |             |

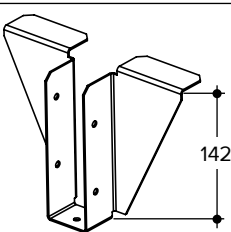
## 4.4 Deck Supports

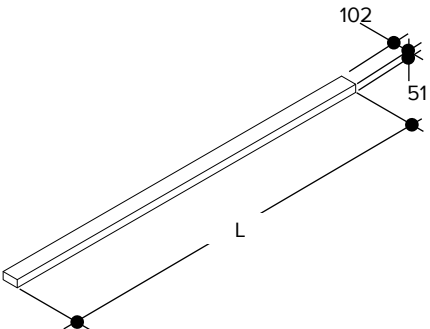
Deck Supports hold the the Plyform Decks in place. Decks Supports QDDS with Pins are intended to be used with standard joists. Deck Supports without Pins QDDSWOP are intended to be used for special applications. With the aid of the QD Deck Support Hanger QDDSH, the deck can be reinforced between two Deck Supports, e.g. using the Deck Support Hanger Lumber 4' QDDSHL4.

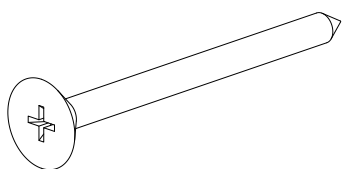
|                                                                                    | Component                          | Part code    | Weight [kg]  |
|------------------------------------------------------------------------------------|------------------------------------|--------------|--------------|
|  | <b>QD Deck Support 8' (244 cm)</b> | <b>QDDS</b>  | <b>22.20</b> |
|                                                                                    | <b>QD Deck Support 7' (213 cm)</b> | <b>QDDS7</b> | <b>19.05</b> |

Both components are supplied with pins.

|                                                                                     |                                     |                |              |
|-------------------------------------------------------------------------------------|-------------------------------------|----------------|--------------|
|  | <b>QD Deck Support without Pins</b> | <b>QDDSWOP</b> | <b>22.20</b> |
|-------------------------------------------------------------------------------------|-------------------------------------|----------------|--------------|

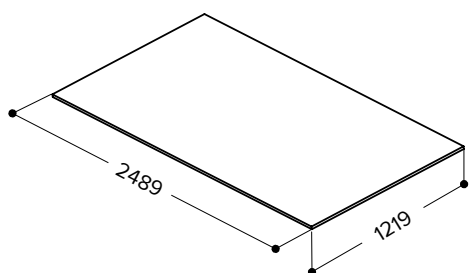
|                                                                                     |                               |              |             |
|-------------------------------------------------------------------------------------|-------------------------------|--------------|-------------|
|  | <b>QD Deck Support Hanger</b> | <b>QDDSH</b> | <b>0.50</b> |
|-------------------------------------------------------------------------------------|-------------------------------|--------------|-------------|

|                                                                                   | Component                                            | Part code      | Weight [kg] |
|-----------------------------------------------------------------------------------|------------------------------------------------------|----------------|-------------|
|  | <b>QD Deck Support Hangr Lmbr 8ft<br/>(244 cm)</b>   | <b>QDDSHL8</b> | <b>6.92</b> |
|                                                                                   | <b>QD Deck Support Hanger Lumber 4'<br/>(122 cm)</b> | <b>QDDSHL4</b> | <b>3.60</b> |

|                                                                                   |                                                                                                       |                 |             |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------|-------------|
|  | <b>QD SCRW BUGLE H PHIL #9X2-1/2</b><br>Used to connect the plywood to the QD Deck Support Hangr Lmbr | <b>99-21449</b> | <b>0.05</b> |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------|-------------|

## 4.5 Decks

Decks bear the weight of working loads, serve as work areas and stabilise Quikdeck.

|                                                                                     | Component                                     | Part code     | Weight [kg]  |
|-------------------------------------------------------------------------------------|-----------------------------------------------|---------------|--------------|
|  | <b>QD Plyform Deck 4' × 8' (122 × 246 cm)</b> | <b>653257</b> | <b>37.03</b> |

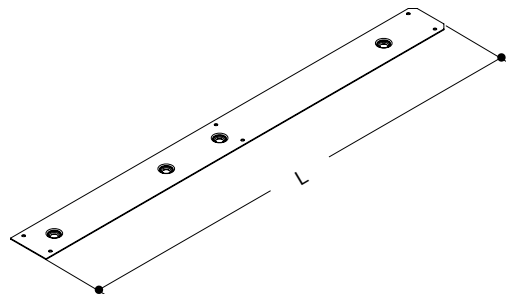
### TIP

#### Tip!

Other decks are available for special applications. Contact HÜNNEBECK for more information.

## 4.6 Retainers

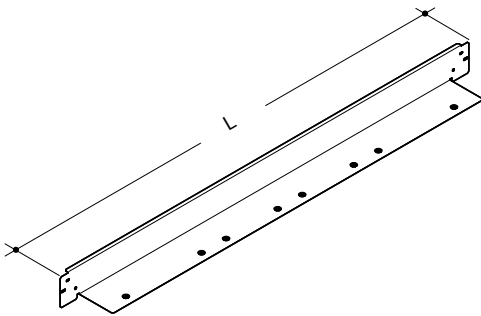
Retainers prevent wind uplift and increase the shear strength of the platform.

|                                                                                  | Component                                                           | Part code | Weight [kg] |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------|-------------|
|  | QD Deck Retainer<br>Half 8' (250 cm) CS                             | QDRH8C    | 2.30        |
|                                                                                  | QD Retainer 7' Nom Csink (76) (213 cm)                              | QDR7C     | 2.90        |
|                                                                                  | QD Deck Retainer<br>5/6 (208 cm) CS                                 | QDR56C    | 3.20        |
|                                                                                  | QD Deck Retainer<br>QD Diagonal 1/2 (177 cm) CS                     | QDR12DC   | 2.70        |
|                                                                                  | QD Deck Retainer<br>2/3 (168 cm) CS                                 | QDR23C    | 2.70        |
|                                                                                  | QD Deck Retainer<br>4' (128 cm), 1/2 (125 cm)<br>and 4C (123 cm) CS | QDR4C     | 1.80        |
|                                                                                  | QD Deck Retainer 1/3 (83 cm) CS                                     | QDR13C    | 1.80        |
|                                                                                  |                                                                     |           |             |
|                                                                                  |                                                                     |           |             |
|                                                                                  |                                                                     |           |             |

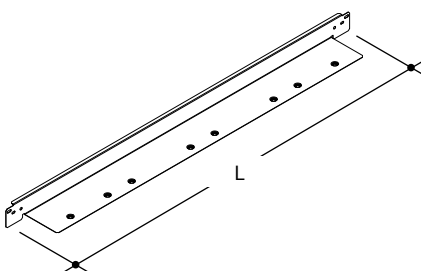
## 4.7 Toe Boards

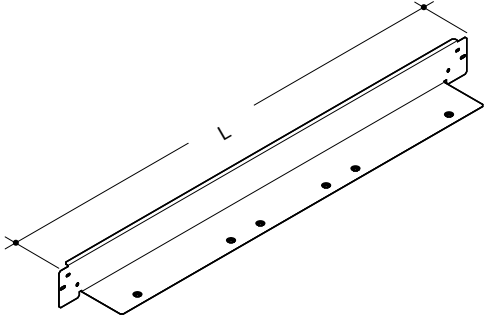
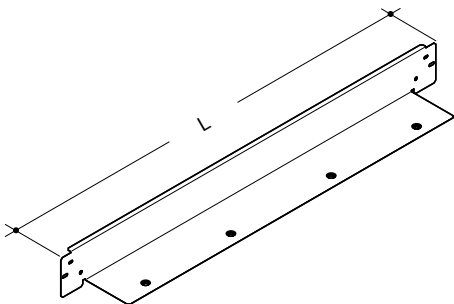
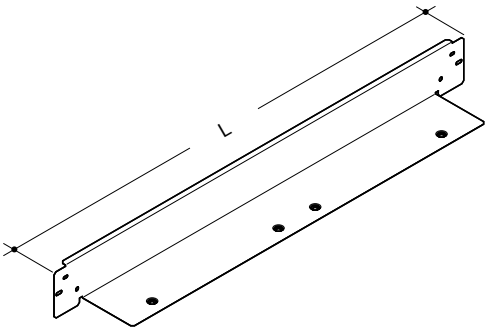
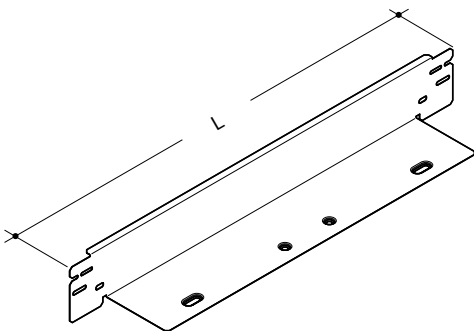
The 15 cm high Toe Boards are part of the three-part side protection. They also protect the Plyform Decks from wind uplift.

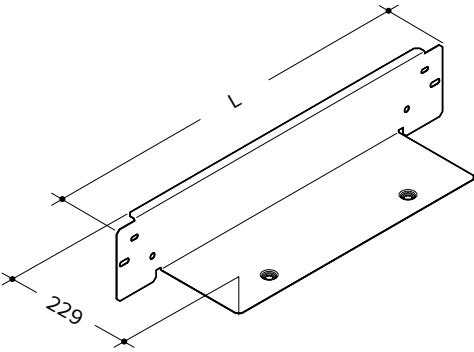
|  | Component                        | Part code | Weight [kg] |
|--|----------------------------------|-----------|-------------|
|  | QD High Toe Board 8' (250 cm) CS | QDHTB8C   | 10.89       |



|  |                                         |        |      |
|--|-----------------------------------------|--------|------|
|  | QD Toe Board 7' Nom Csink (85) (213 cm) | QDTB7C | 7.53 |
|--|-----------------------------------------|--------|------|

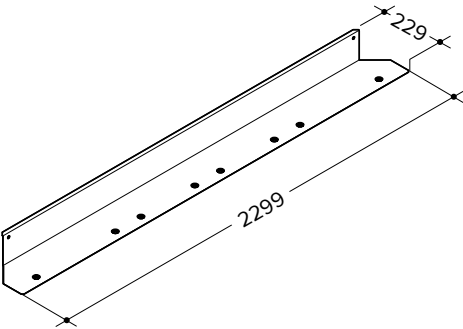


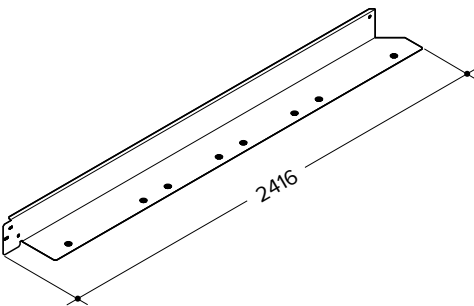
|                                                                                     | Component                                                      | Part code | Weight [kg] |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------|-----------|-------------|
|     | QD High Toe Board 5/6 (208 cm) CS                              | QDHTB56C  | 9.39        |
|   | QD High Toe Board 1/2 Diagonal (177 cm) CS                     | QDHTB12DC | 7.85        |
|   | QD High Toe Board 2/3 (168 cm) CS                              | QDHTB23C  | 7.44        |
|  | QD High Toe Board 4' (128 cm), 1/2 (125 cm) and 4C (123 cm) CS | QDHTB4C   | 5.58        |

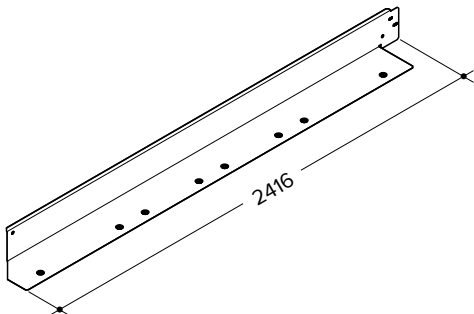
|                                                                                   | Component                        | Part code | Weight [kg] |
|-----------------------------------------------------------------------------------|----------------------------------|-----------|-------------|
|  | QD High Toe Board 1/3 (83 cm) CS | QDHTB13C  | 3.49        |

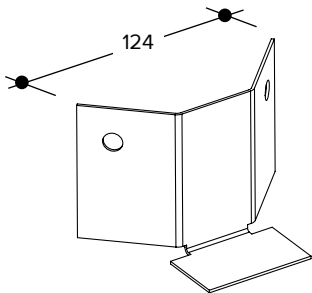
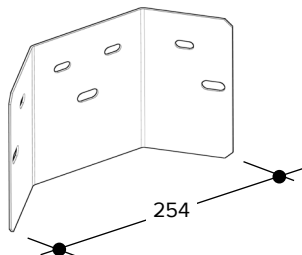
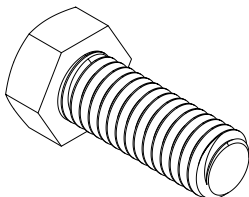
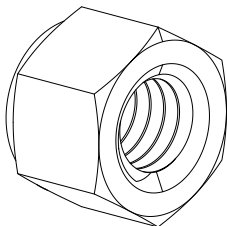
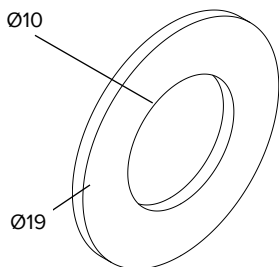
## 4.8 Corner Toe Boards and Infills

Corner Toe Boards are needed along the outer edges of platforms as well as along the edges of openings in the platform. The Corner Infills have fasteners for Railing Posts and Toe Boards.

|                                                                                    | Component                                 | Part code | Weight [kg] |
|------------------------------------------------------------------------------------|-------------------------------------------|-----------|-------------|
|  | QD High Toe Board Inside Corner Double CS | QDHTBCDC  | 10.43       |

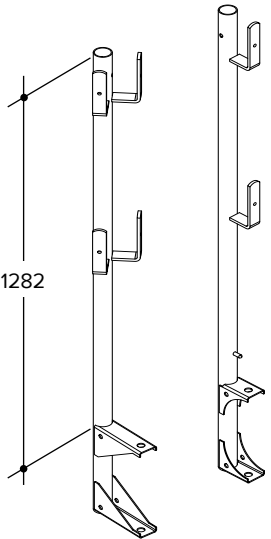
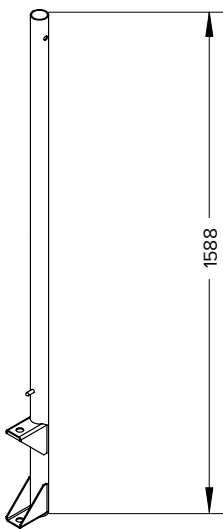
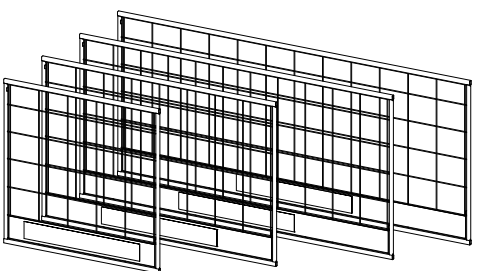
|                                                                                     |                                         |          |       |
|-------------------------------------------------------------------------------------|-----------------------------------------|----------|-------|
|  | QD High Toe Board Inside Corner Left CS | QDHTBCLC | 10.43 |
|-------------------------------------------------------------------------------------|-----------------------------------------|----------|-------|

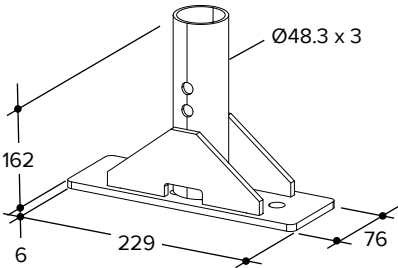
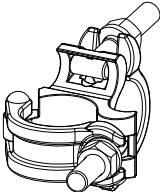
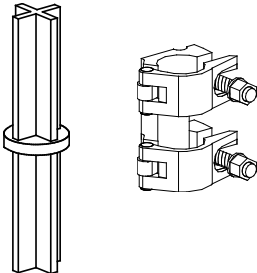
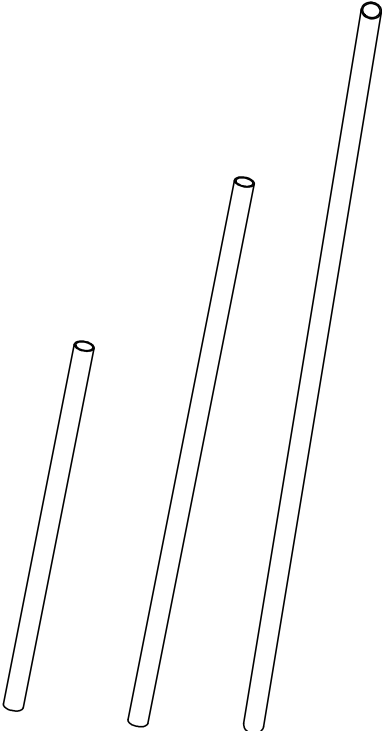
|                                                                                     |                                          |          |       |
|-------------------------------------------------------------------------------------|------------------------------------------|----------|-------|
|  | QD High Toe Board Inside Corner Right CS | QDHTBCRC | 10.89 |
|-------------------------------------------------------------------------------------|------------------------------------------|----------|-------|

|                                                                                     | Component                           | Part code | Weight [kg] |
|-------------------------------------------------------------------------------------|-------------------------------------|-----------|-------------|
|    | High Toe Board Inside Corner Infill | QDHTBIFI  | 0.32        |
|    | High Toe Board Outside Corner       | QDHTBIFO  | 1.27        |
|  | QD Bolt HX 3/8-16X1 A449 PLT        | 99-E0030  | 0.05        |
|  | QD Nut ESN 3/8-16 PLT               | 99-E0230  | 0.05        |
|  | QD Washer Flt 3/8                   | 99-E0527  | 0.05        |

## 4.9 Railings

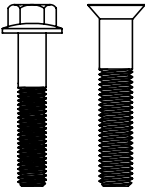
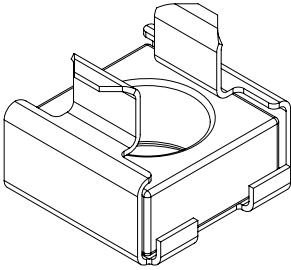
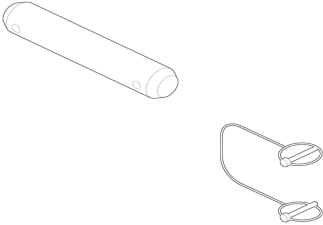
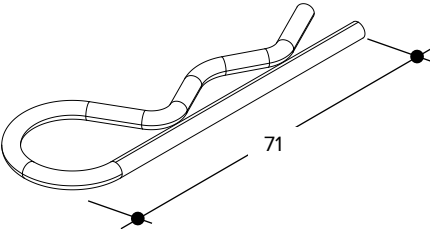
The three-part side protection is constructed with Railing Posts, Scaffold Tubes and Half Couplers.

|                                                                                     | Component                                                                                                                                                                                                                                                                         | Part code         | Weight [kg]  |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------|
|    | <b>QD Guardrail PROTECTO 4'</b>                                                                                                                                                                                                                                                   | <b>QDGRPPRO4</b>  | <b>7.14</b>  |
|                                                                                     | <b>QD Guardrail Corner PROTECTO 4'</b>                                                                                                                                                                                                                                            | <b>QDGRPCPRO4</b> | <b>7.14</b>  |
|                                                                                     | <p>The posts attach to the nodes and, in conjunction with the Uni Mesh Panels, provide edge protection at the leading edges of the decks.</p> <p>The corner post has two pairs of upper and lower positions for the mesh panels to be located, at right angles to each other.</p> |                   |              |
|  | <b>Rigid Railing Post without Loops</b>                                                                                                                                                                                                                                           | <b>QD-24374</b>   | <b>3.18</b>  |
|                                                                                     |                                                                                                                                                                                                                                                                                   |                   |              |
|  | <b>Uni Mesh Panel 270 RAL</b>                                                                                                                                                                                                                                                     | <b>607929</b>     | <b>17.09</b> |
|                                                                                     | <b>Uni Mesh Panel 270</b>                                                                                                                                                                                                                                                         | <b>607945</b>     | <b>18.59</b> |
|                                                                                     | <b>Uni Mesh Panel 240 RAL</b>                                                                                                                                                                                                                                                     | <b>607928</b>     | <b>15.52</b> |
|                                                                                     | <b>Uni Mesh Panel 240</b>                                                                                                                                                                                                                                                         | <b>607940</b>     | <b>16.88</b> |
|                                                                                     | <b>Uni Mesh Panel 180 RAL</b>                                                                                                                                                                                                                                                     | <b>607927</b>     | <b>12.22</b> |
|                                                                                     | <b>Uni Mesh Panel 180</b>                                                                                                                                                                                                                                                         | <b>607985</b>     | <b>13.28</b> |
|                                                                                     | <b>Uni Mesh Panel 120 RAL</b>                                                                                                                                                                                                                                                     | <b>607926</b>     | <b>8.92</b>  |
|                                                                                     | <b>Uni Mesh Panel 120</b>                                                                                                                                                                                                                                                         | <b>607955</b>     | <b>9.69</b>  |
|                                                                                     | <p>Used in conjunction with the QD Guardrail PROTECTO 4' and the QD Guardrail Corner PROTECTO 4', they provide edge protection at the leading edges of the decks.</p>                                                                                                             |                   |              |

|                                                                                     | Component                                                                                                                                                                                                                                                  | Part code     | Weight [kg]  |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|
|    | <b>QD Joist Mounted Socket</b><br>Used in conjunction with the QD Hex Flange Bolt 1/2-13 x 2 1/2 and attached to the joists. It allows for a post to be installed to create an internal guardrail.                                                         | <b>QDJS</b>   | <b>2.04</b>  |
|                                                                                     | <div>  <b>WARNING</b> </div> <b>Risk of fatal injury due to excessive loading!</b><br>Not to be used as part of the edge protection system. For internal demarcation only. |               |              |
|    | <b>Rigid Coupler 48/48 w.a.f. 22</b><br>For connecting Ø 48.3 mm Scaffold Tubes to Railing Posts.                                                                                                                                                          | <b>2514</b>   | <b>1.20</b>  |
|   | <b>Tension Coupler 48/48, consisting of:</b><br><b>Tube Connector for Tension Coupler</b>                                                                                                                                                                  | <b>801168</b> | <b>1.10</b>  |
|                                                                                     | <b>Outer Part of Tension Coupler w.a.f. 22</b>                                                                                                                                                                                                             | <b>20003</b>  | <b>1.40</b>  |
|  | <b>Scaffold Tube 48.3 x 50</b>                                                                                                                                                                                                                             | <b>169001</b> | <b>1.90</b>  |
|                                                                                     | <b>Scaffold Tube 48.3 x 100</b>                                                                                                                                                                                                                            | <b>169012</b> | <b>3.80</b>  |
|                                                                                     | <b>Scaffold Tube 48.3 x 150</b>                                                                                                                                                                                                                            | <b>169023</b> | <b>5.70</b>  |
|                                                                                     | <b>Scaffold Tube 48.3 x 200</b>                                                                                                                                                                                                                            | <b>169034</b> | <b>7.60</b>  |
|                                                                                     | <b>Scaffold Tube 48.3 x 250</b>                                                                                                                                                                                                                            | <b>169045</b> | <b>9.50</b>  |
|                                                                                     | <b>Scaffold Tube 48.3 x 300</b>                                                                                                                                                                                                                            | <b>169056</b> | <b>11.40</b> |
|                                                                                     | <b>Scaffold Tube 48.3 x 350</b>                                                                                                                                                                                                                            | <b>169067</b> | <b>13.30</b> |
|                                                                                     | <b>Scaffold Tube 48.3 x 400</b>                                                                                                                                                                                                                            | <b>169078</b> | <b>15.24</b> |
|                                                                                     | <b>Scaffold Tube 48.3 x 450</b>                                                                                                                                                                                                                            | <b>169089</b> | <b>17.20</b> |
|                                                                                     | <b>Scaffold Tube 48.3 x 500</b>                                                                                                                                                                                                                            | <b>169090</b> | <b>19.10</b> |
|                                                                                     | <b>Scaffold Tube 48.3 x 550</b>                                                                                                                                                                                                                            | <b>169104</b> | <b>21.00</b> |
|                                                                                     | <b>Scaffold Tube 48.3 x 600</b>                                                                                                                                                                                                                            | <b>169115</b> | <b>22.90</b> |
| Dimensions shown are diameter x length                                              |                                                                                                                                                                                                                                                            |               |              |

## 4.10 Mounting parts

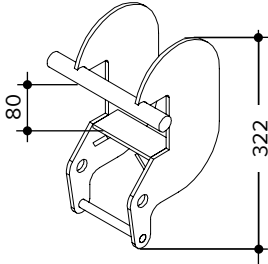
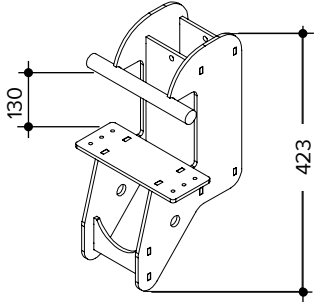
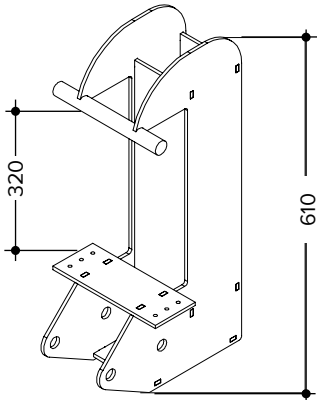
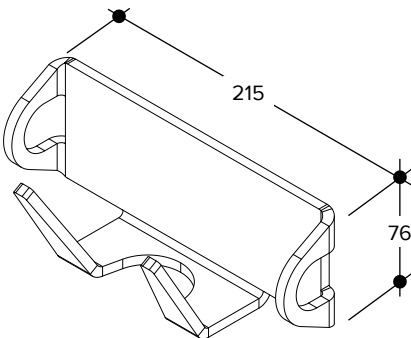
The following parts are needed to attach the components to the platform.

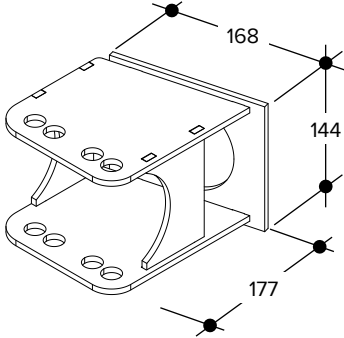
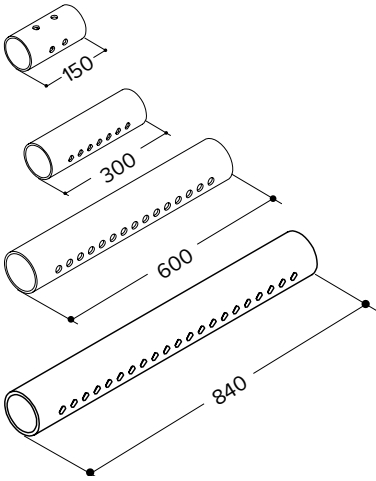
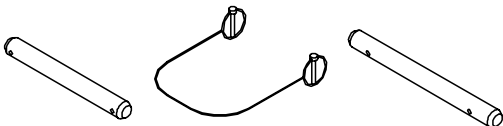
|                                                                                     | Component                           | Part code      | Weight [kg] |
|-------------------------------------------------------------------------------------|-------------------------------------|----------------|-------------|
|    | QD Chain-to-Wire Rope Connector Pin | 99-A0408470202 | 0.50        |
|                                                                                     | QD Hex Flange Bolt 1/2-13 x 2 1/2   | 99-A0508470344 | 0.10        |
|                                                                                     | QD Countersunk Screw 1/2-13 x 2 1/2 | 99-A0508470345 | 0.10        |
|                                                                                     |                                     |                |             |
|    | QD Cage Nut                         | 99-A0508470346 | 0.05        |
|  | QD Bolt                             | 99-A9105500368 | 0.20        |
|                                                                                     | QD Lynch Pin with Lanyard           | 99-E0316       | 0.01        |
|  | QD Pin Hitch Clip #11               | 99-E0211       | 0.01        |

## 4.11 Elements for securing Quikdeck to load-bearing structures

Beam Clamps are needed to suspend Quikdeck from load-bearing elements, e.g. steel beams.

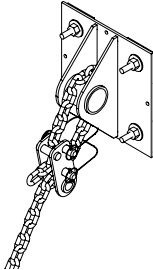
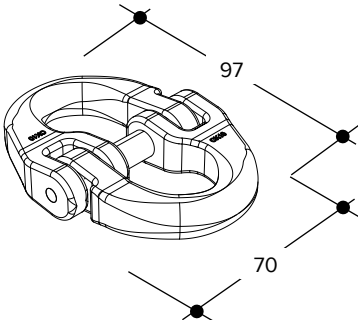
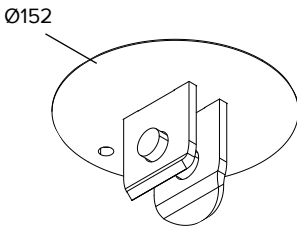
Concrete anchors are used to suspend Quikdeck from load-bearing concrete parts.

|                                                                                     | Component                                                                                                                                                                                            | Part code      | Weight [kg]  |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------|
|    | <b>QD Beam Clamp Jaw 2" (8 cm)</b>                                                                                                                                                                   | <b>QDBCJ2</b>  | <b>5.00</b>  |
|   | <b>QD Beam Clamp Jaw 5" (13 cm)</b>                                                                                                                                                                  | <b>QDBCJ5</b>  | <b>10.43</b> |
|  | <b>QD Beam Clamp Jaw 12" (32 cm)</b>                                                                                                                                                                 | <b>QDBCJ10</b> | <b>22.70</b> |
|  | <b>QD Bearing Plate Deep Jaw BC</b><br>Used in conjunction with the QD Beam Clamp Jaw at the point of contact with the structure. It allows for a wider spread of the loads to protect the concrete. | <b>QDBCJBP</b> | <b>1.36</b>  |

|                                                                                     | Component                                                                                                                                                                                                                                    | Part code             | Weight [kg]  |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------|
|    | <b>QD Beam Clamp Jaw Retainer</b><br>Used with the QD Beam Clamp Jaw and the QD Beam Clamp Tube to prevent unintentional displacement. The retainer is attached to the tube and against the side of the structure opposite to the clamp jaw. | <b>QDBCJR</b>         | <b>4.31</b>  |
|                                                                                     |                                                                                                                                                                                                                                              |                       |              |
|   | <b>QD Beam Clamp Tube 4" (10 cm)</b>                                                                                                                                                                                                         | <b>QDBCT4</b>         | <b>3.60</b>  |
|                                                                                     | <b>QD Beam Clamp Tube 3.5 - 6" (15 cm)</b>                                                                                                                                                                                                   | <b>QDBCT6</b>         | <b>3.54</b>  |
|                                                                                     | <b>QD Beam Clamp Tube 12" (30 cm)</b>                                                                                                                                                                                                        | <b>QDBCT12</b>        | <b>6.80</b>  |
|                                                                                     | <b>QD Beam Clamp Tube 24" (60 cm)</b>                                                                                                                                                                                                        | <b>QDBCT24</b>        | <b>10.90</b> |
|                                                                                     | <b>QD Beam Clamp Tube 33" (84 cm)</b>                                                                                                                                                                                                        | <b>QDBCT33</b>        | <b>19.50</b> |
|  | <b>QD Suspender Pin 3/4 x 6 1/2</b>                                                                                                                                                                                                          | <b>99-A0308470018</b> | <b>0.50</b>  |
|                                                                                     | <b>QD Suspender Pin 8" (20 cm)</b>                                                                                                                                                                                                           | <b>99-A0404470165</b> | <b>0.45</b>  |
|                                                                                     | <b>QD Lynch Pin with 16" Lanyard</b>                                                                                                                                                                                                         | <b>99-E0322</b>       | <b>0.05</b>  |

## 4.12 Concrete anchors

If there are no other hoist attachment points available, concrete anchors are attached to the load-bearing structure.

|                                                                                     | Component                                                                                                                                                                                                                                    | Part code         | Weight [kg] |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|
|    | <b>QD Suspension Concrete Anchor Cap 8.8K</b><br><br>The QD Suspension Concrete Anchor Cap 8.8K is secured using 4no. HILTI 12 mm HDA-T 120/30 anchors or similar.                                                                           | <b>SA-UCA8.8K</b> | <b>7.26</b> |
|                                                                                     |                                                                                                                                                                                                                                              |                   |             |
|   | <b>Hammerlock 3/8 Grade 100</b><br><br>Used to connect or extend chains (head-to-head).                                                                                                                                                      | <b>99-21323</b>   | <b>0.36</b> |
|  | <b>SA 3/8 Chain Thru Slab Connect</b><br><br>Used to provide a suspension point through a pre-drilled opening.<br>The flat plate is positioned on the upper face of the structure and is thin enough to allow for vehicles to drive over it. | <b>SA-TSC8.8K</b> | <b>1.47</b> |

## 4.13 Hoisting and suspension chains

Chains are the best way to suspend Quikdeck.

The suspension chains QDC are used to suspend the platform from a load-bearing structure. Suspension chains are available in different lengths. They are colour-coded to indicate the length.

All of the chains have to be inspected as required by the provisions applicable on site and labelled accordingly. The inspection has to be documented by a test report in compliance with applicable provisions.



### WARNING

#### Risk of collapse and of serious injury or death!

Hoisting should only be done using the Rigging Chain Assembly Do not use the Rigging Chain Assembly for suspension.

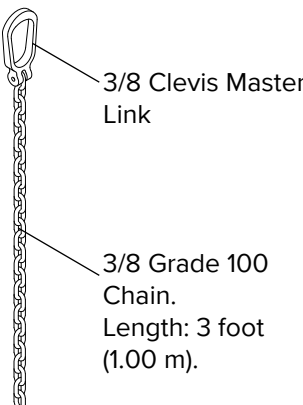
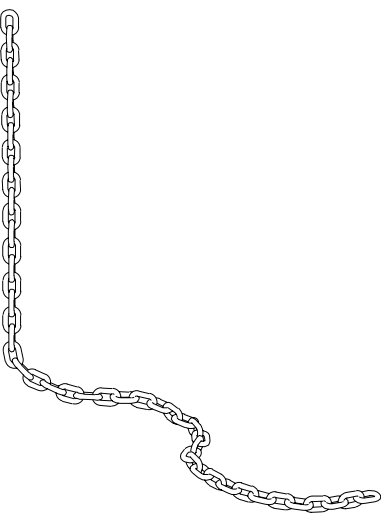


### WARNING

#### Risk of collapse and serious injury or death!

Suspension chains for the Quikdeck suspended access system are 3/8" Grade 100, conforming to NACM and ASTM A973 standards. Only 3/8" Grade 100 supplied from or approved by BRANDSAFWAY or HÜNNEBECK may be used as suspension chains for the Quikdeck suspended access system.

Using chains not approved by BRANDSAFWAY or HÜNNEBECK may cause suspender failure.

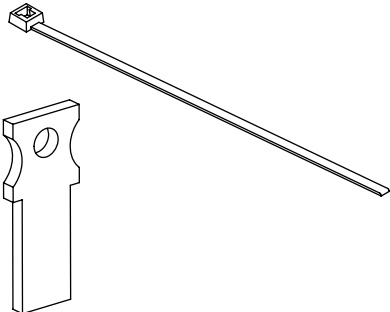
|                                                                                     | Component                                                                                                                                                                                                                           | Part code             | Weight [kg]  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------|
|  | <b>Rigging Chain Assembly</b>                                                                                                                                                                                                       | <b>99-A0701470424</b> | <b>3.18</b>  |
|                                                                                     | <p>The Rigging Chain Assembly is used for hoisting and is made of a 3/8 Clevis Master Link and a f 3/8 Grade 100 Chain. The Rigging Chain Assembly is attached to the node using the Chain Retainer Pin and the Chain Wire Tie.</p> |                       |              |
|  | <b>QD Chain 3/8 GR 100 Yellow per foot (30.5 cm) *</b>                                                                                                                                                                              | <b>QDCFT</b>          | <b>0.68</b>  |
|                                                                                     |                                                                                                                                                                                                                                     |                       | <b>2.30</b>  |
|                                                                                     | <b>Hoisting chain per meter</b>                                                                                                                                                                                                     | <b>QDC6</b>           | <b>4.10</b>  |
|                                                                                     | <b>QD Chain 6' (1.80 m)</b>                                                                                                                                                                                                         | <b>QDC12</b>          | <b>8.20</b>  |
|                                                                                     | <b>QD Chain 12' (3.60 m)</b>                                                                                                                                                                                                        | <b>QDC18</b>          | <b>12.20</b> |
|                                                                                     | <b>QD Chain 18' (5.50 m)</b>                                                                                                                                                                                                        | <b>QDC24</b>          | <b>16.30</b> |
|                                                                                     | <b>QD Chain 24' (7.30 m)</b>                                                                                                                                                                                                        | <b>QDC40</b>          | <b>27.20</b> |
|                                                                                     | <b>QD Chain 40' (12.30 m)</b>                                                                                                                                                                                                       |                       |              |
|                                                                                     | <p>Compared to other ways to suspend Quikdeck, chains greatly reduce the risk of faulty suspension, require a lower Factor of Safety and require less effort to assemble.</p> <p>* Weight is per foot.</p>                          |                       |              |

### TIP

Other components used to suspend Quikdeck can be found beginning on page 32.

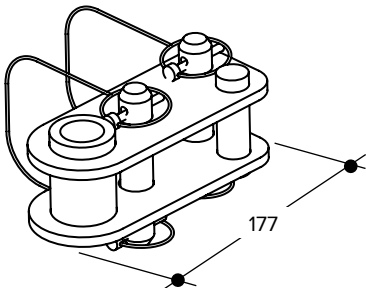
## 4.14 Chain retainer

The Chain Retainer Pin QDCR secures the suspension chain in the node.

|                                                                                   | Component            | Part code | Weight [kg] |
|-----------------------------------------------------------------------------------|----------------------|-----------|-------------|
|  | QD Chain Retainer    | QDCR      | 0.10        |
|                                                                                   | QD Wire Tie #6 Green | QDCWT     | 0.01        |

## 4.15 Chain Couplers

Chain couplers are used to create a loop in a chain. The loop can be placed over a load-bearing structure.

|                                                                                    | Component                 | Part code | Weight [kg] |
|------------------------------------------------------------------------------------|---------------------------|-----------|-------------|
|  | QD Chain Coupler Assembly | QDCC      | 1.80        |

## 4.16 Other means of suspension

### 4.16.1 Wire ropes

If the specific circumstances do not permit the use of chains, wire ropes can be used to raise and lower Quikdeck.

The load rating of wire ropes is diminished when the wire rope has to be looped around objects.

Suspending Quikdeck with wire ropes requires a higher FOS than suspending it with chains.

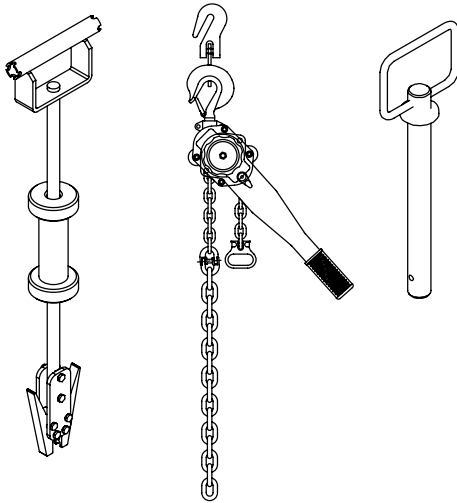
### 4.16.2 Fabric slings

Fabric slings should be used only in exceptional cases. They require a high FOS and may be used only once. They are more susceptible to environmental factors than are chains or wire ropes.

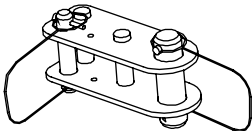
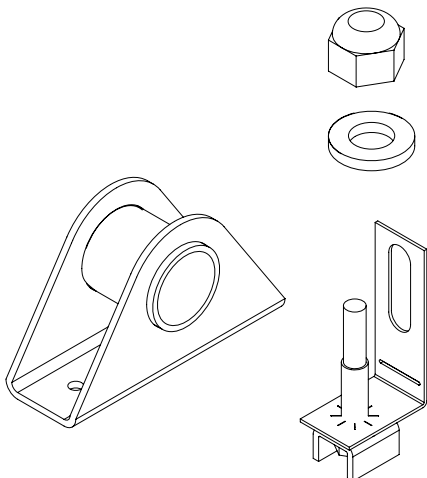
|                                                                                     | Component                     | Part code      | Weight [kg] |
|-------------------------------------------------------------------------------------|-------------------------------|----------------|-------------|
|  | SA WEB SLING 4' T/T STL 8.8K  | SA-WEBS2X2X4R  | 1.81        |
|                                                                                     | SA WEB SLING 8' T/T STL 8.8K  | SA-WEBS2X2X8R  | 3.17        |
|                                                                                     | SA WEB SLING 12' T/T STL 8.8K | SA-WEBS2X2X12R | 4.08        |

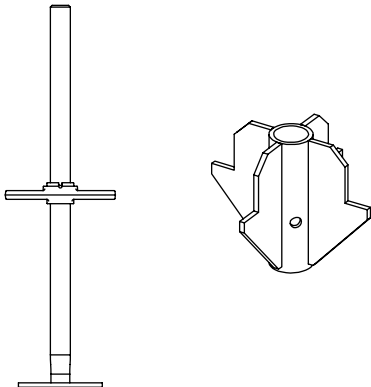
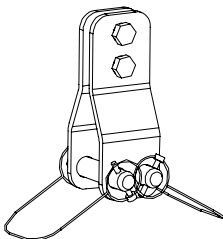
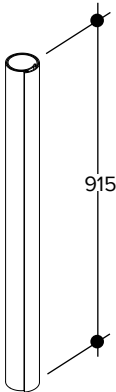
Web straps used to wrap around the existing structure for suspension points.

## 4.17 Tools

|                                                                                   | Component                                                                                                       | Part code       | Weight [kg]  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------|--------------|
|  | <b>QD Pin Extractor - Pin Puller</b><br>The Pin Extractor is used to remove tight Node Pins.                    | <b>QDTE</b>     | <b>6.40</b>  |
|                                                                                   | <b>QD Tool Hoist with Load Limiter</b><br>The Tool Hoist with Load Limiter QDTHL is used to align the platform. | <b>QDTHL</b>    | <b>10.90</b> |
|                                                                                   | <b>QD Hitch Pin</b><br>The Hitch Pin holds the Joists in place during assembly.                                 | <b>99-E0462</b> | <b>0.50</b>  |

## 4.18 Accessories

|                                                                                     | Component                                                                                                                                                                                                                                                                                                       | Part code       | Weight [kg] |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|
|  | <b>QD Chain-to-Wire Rope Coupler Assembly</b><br>l = 203 mm<br>Couplers for chains with wire ropes accommodate a single 19 mm wire rope or two 14.3 mm wire ropes with thimbles.<br>When the Chain Thru Slab Connect SA-TSC8.8K is used, the coupler serves to secure the suspension chain to the anchor chain. | <b>QDCWRC</b>   | <b>2.30</b> |
|                                                                                     |                                                                                                                                                                                                                                                                                                                 |                 |             |
|  | <b>QD Auxiliary Suspender Bracket</b><br>l = 228 mm<br>Auxiliary Suspender Brackets are used to attach chains or wire ropes for suspenders in places where there are no Nodes from which to suspend the structure.                                                                                              | <b>QDSAB</b>    | <b>3.20</b> |
|                                                                                     | <b>QD Auxiliary Suspender Mounting Bolt</b><br>l = 76 mm                                                                                                                                                                                                                                                        | <b>QDFSABB</b>  | <b>0.10</b> |
|                                                                                     | <b>QD Flat Washer for QD Auxiliary Suspender Mounting Bolt</b>                                                                                                                                                                                                                                                  | <b>QDFSABW</b>  | <b>0.05</b> |
|                                                                                     | <b>Auxiliary Suspender Bracket Nut</b>                                                                                                                                                                                                                                                                          | <b>99-22668</b> | <b>0.10</b> |

|                                                                                     | Component                                                                                                              | Part code          | Weight [kg] |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|--------------------|-------------|
|    | <b>QD Screw Jack with Base Plate</b><br>Screw Jacks are used to level the starter platform when erected on an incline. | <b>AL1S</b>        | <b>7.30</b> |
|                                                                                     | <b>QD Screw Jack Adapter</b><br>l = 101 mm                                                                             | <b>QDBJA</b>       | <b>2.70</b> |
|   | <b>QD Adapter for Power Climber Hoist</b><br>The adapters are used to secure the chains to hoists.<br>l = 177 mm       | <b>QDHAXE</b>      | <b>1.70</b> |
|  | <b>SA Chain Wear Pad 10" x 3' Velcro</b><br>Used to protect chains against friction with structure.                    | <b>SA-PAD10X3V</b> | <b>1.00</b> |

## 5 Starter platforms

The following illustrations show examples of common starter platform configurations. The dimensions, weight and permitted working loads are indicated for each configuration. The outer dimensions stated are the maximum dimensions, including the railing posts.

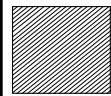
### TIP

The illustrations shown in this section are plan views of the typical starter platforms and are not all at the same scale.

The Nodes serving as hoist attachment points are labelled with this symbol:



Only dead loads and no live loads in the shaded areas.



Hoist operators are responsible for checking the location of the platform. They must ensure that there is sufficient clearance between the platform and the structure to avoid interference.

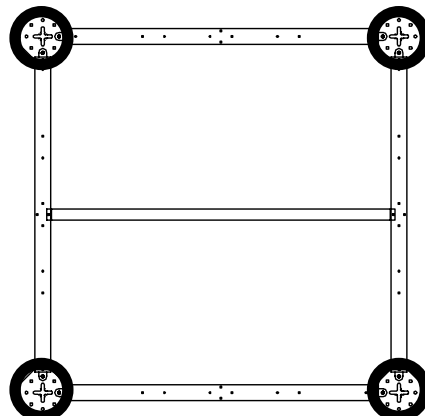
The maximum working load applicable to the starter platform includes the hoist and all materials stored on the platform when it is raised. The loads have to be evenly distributed and properly secured. Custom calculations must be made for concentrated loads in each separate case.

The working load of the platform applies to raising it with four hoists. The maximum vertical load to which the structure is subjected at all of the hoist attachment points is the load rating of the hoist.

The operator is responsible for the calculation, review, analysis and inspection to ensure that the structure can withstand the loads imposed by Quikdeck. Refer to the project-specific drawings and/or this guide for details on the complete installation process of the platform. For configurations of the starter platform that are not explained here, please contact the HÜNNEBECK technical department.

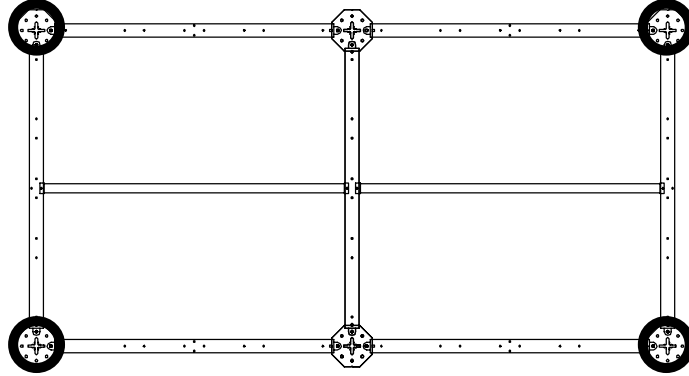
**All live loads, concentrated loads and point loads referred to in this section in accordance with BS EN 12811.**

| Nominal size [m] | Outer dimensions [m] | Dead load [kg] | Live load [kN/m <sup>2</sup> ] (based on load rating per hoist) |              |               |
|------------------|----------------------|----------------|-----------------------------------------------------------------|--------------|---------------|
|                  |                      |                | 500 kg hoist                                                    | 800 kg hoist | 1000 kg hoist |
| 2.40 x 2.40      | 2.91 x 2.91          | 295            | 1.93                                                            | 2.32         | 2.32          |

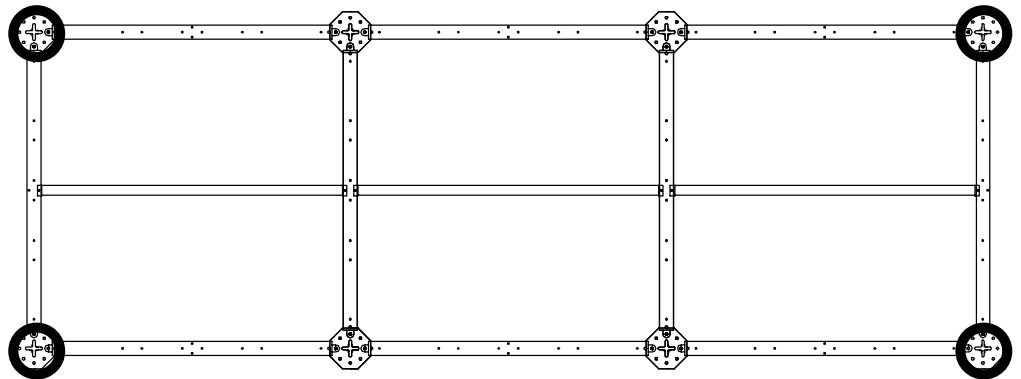


## Starter platforms

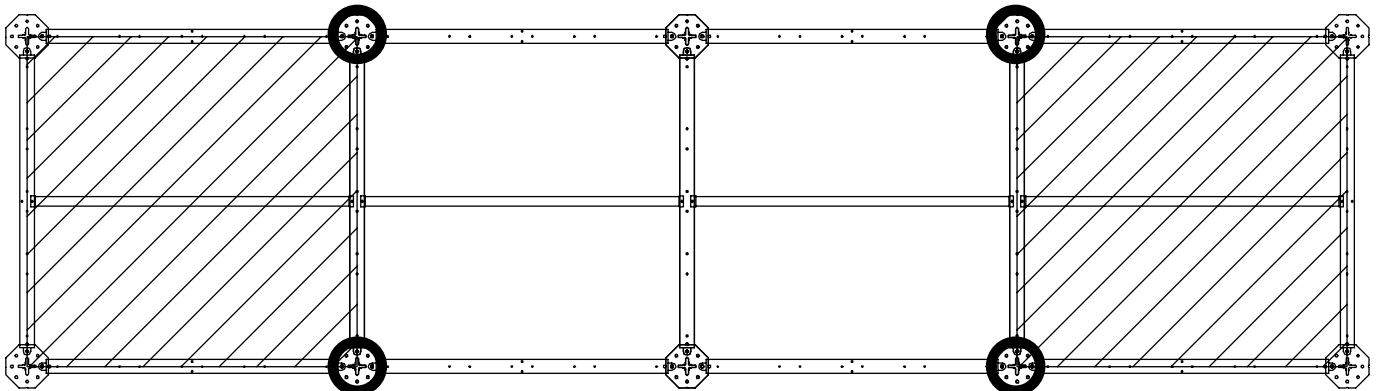
| Nominal size [m] | Outer dimensions [m] | Dead load [kg] | Live load [kN/m <sup>2</sup> ] (based on load rating per hoist) |              |               |
|------------------|----------------------|----------------|-----------------------------------------------------------------|--------------|---------------|
|                  |                      |                | 500 kg hoist                                                    | 800 kg hoist | 1000 kg hoist |
| 2.40 x 4.80      | 2.91 x 5.40          | 522            | 0.77                                                            | 1.16         | 1.16          |



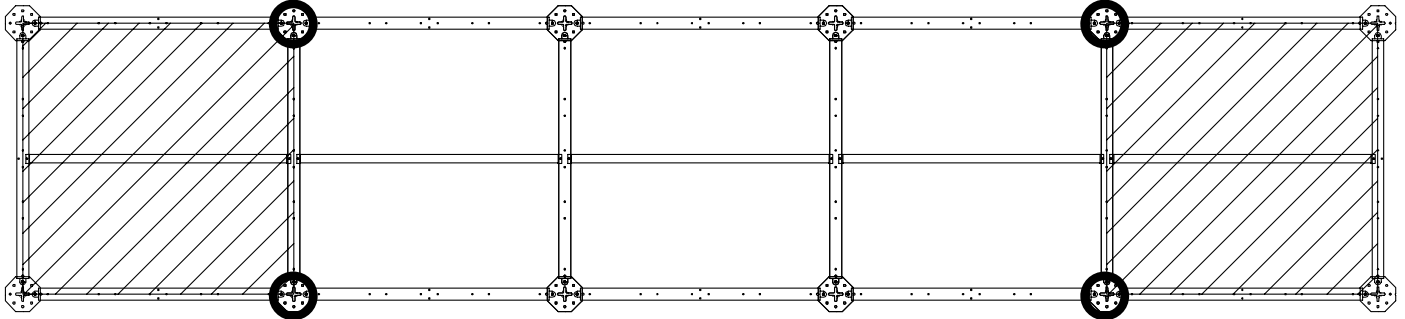
| Nominal size [m] | Outer dimensions [m] | Dead load [kg] | Live load [kN/m <sup>2</sup> ] (based on load rating per hoist) |              |               |
|------------------|----------------------|----------------|-----------------------------------------------------------------|--------------|---------------|
|                  |                      |                | 500 kg hoist                                                    | 800 kg hoist | 1000 kg hoist |
| 2.40 x 7.20      | 2.91 x 7.90          | 748            | 0.39                                                            | 0.77         | 0.77          |



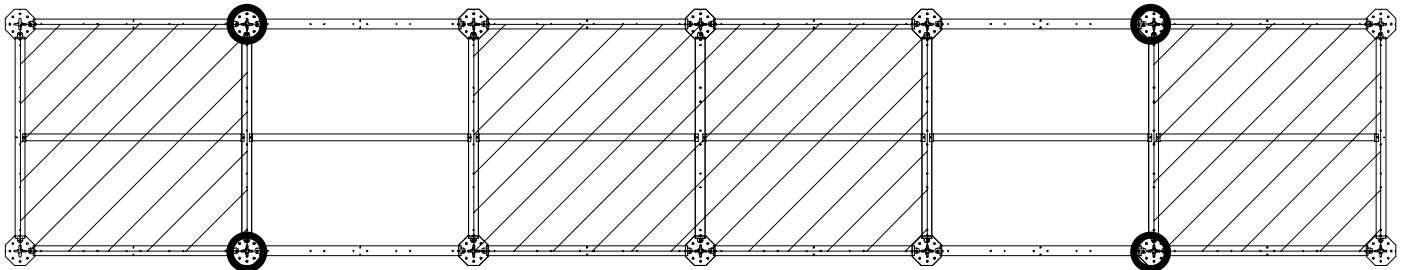
| Nominal size [m] | Outer dimensions [m] | Dead load [kg] | Live load [kN/m <sup>2</sup> ] (based on load rating per hoist) |              |               |
|------------------|----------------------|----------------|-----------------------------------------------------------------|--------------|---------------|
|                  |                      |                | 500 kg hoist                                                    | 800 kg hoist | 1000 kg hoist |
| 2.40 x 9.60      | 2.91 x 10.41         | 975            | 0.39                                                            | 0.97         | 1.16          |



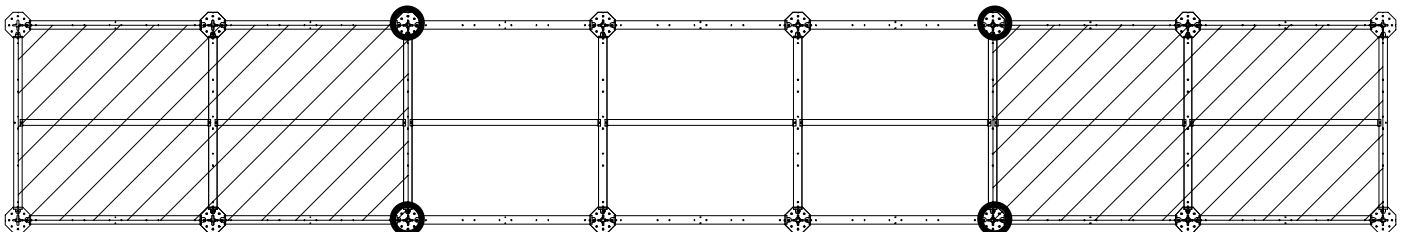
| Nominal size [m] | Outer dimensions [m] | Dead load [kg] | Live load [kN/m <sup>2</sup> ] (based on load rating per hoist) |              |               |
|------------------|----------------------|----------------|-----------------------------------------------------------------|--------------|---------------|
|                  |                      |                | 500 kg hoist                                                    | 800 kg hoist | 1000 kg hoist |
| 2.4 x 12.00      | 2.91 x 12.89         | 1202           | 0.13                                                            | 0.51         | 0.77          |



| Nominal size [m] | Outer dimensions [m] | Dead load [kg] | Live load [kN/m <sup>2</sup> ] (based on load rating per hoist) |              |               |
|------------------|----------------------|----------------|-----------------------------------------------------------------|--------------|---------------|
|                  |                      |                | 500 kg hoist                                                    | 800 kg hoist | 1000 kg hoist |
| 2.40 x 14.40     | 2.91 x 15.39         | 1429           | 0.00                                                            | 0.58         | 1.16          |

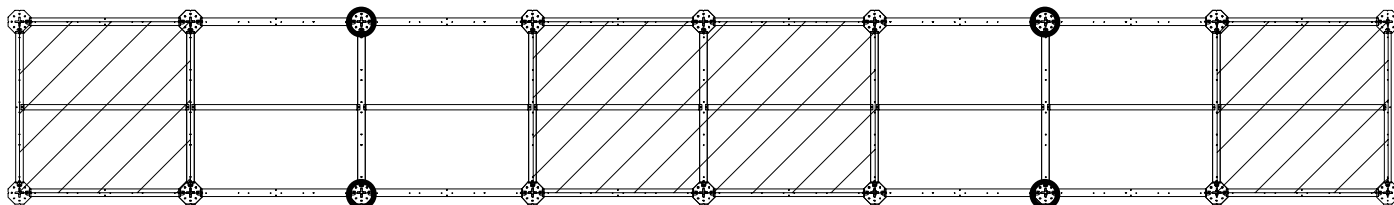


| Nominal size [m] | Outer dimensions [m] | Dead load [kg] | Live load [kN/m <sup>2</sup> ] (based on load rating per hoist) |              |               |
|------------------|----------------------|----------------|-----------------------------------------------------------------|--------------|---------------|
|                  |                      |                | 500 kg hoist                                                    | 800 kg hoist | 1000 kg hoist |
| 2.40 x 16.80     | 2.91 x 17.88         | 1655           | 0.00                                                            | 0.26         | 0.64          |

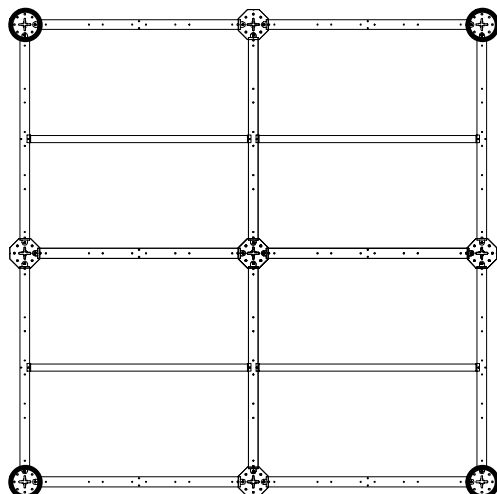


## Starter platforms

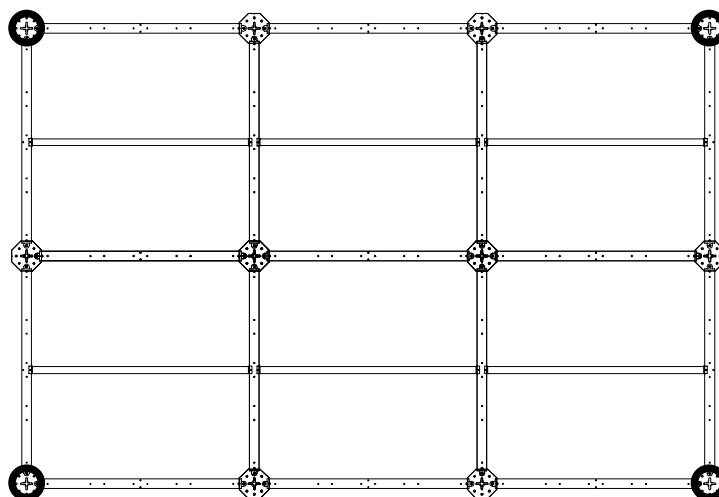
| Nominal size<br>[m] | Outer dimensions<br>[m] | Dead load<br>[kg] | Live load [kN/m <sup>2</sup> ] (based on load rating per hoist) |              |               |
|---------------------|-------------------------|-------------------|-----------------------------------------------------------------|--------------|---------------|
|                     |                         |                   | 500 kg hoist                                                    | 800 kg hoist | 1000 kg hoist |
| 2.40 x 19.20        | 2.91 x 20.38            | 1859              | 0.00                                                            | 0.00         | 0.48          |



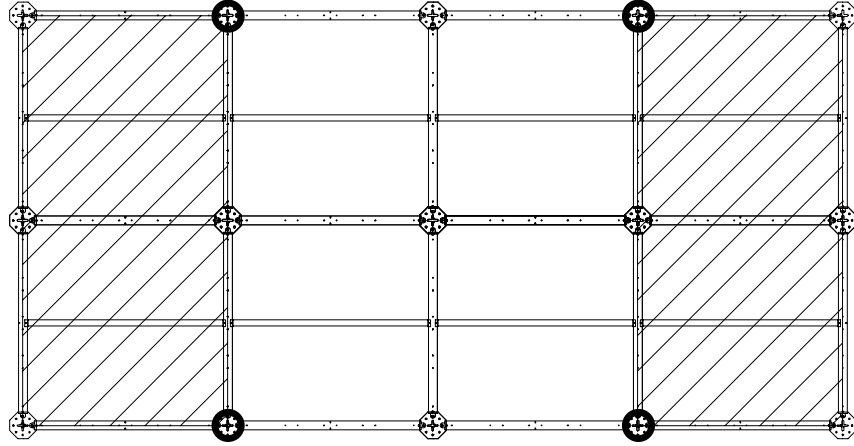
| Nominal size<br>[m] | Outer dimensions<br>[m] | Dead load<br>[kg] | Live load [kN/m <sup>2</sup> ] (based on load rating per hoist) |              |               |
|---------------------|-------------------------|-------------------|-----------------------------------------------------------------|--------------|---------------|
|                     |                         |                   | 500 kg hoist                                                    | 800 kg hoist | 1000 kg hoist |
| 4.80 x 4.80         | 5.40 x 5.40             | 907               | 0.29                                                            | 0.48         | 0.58          |



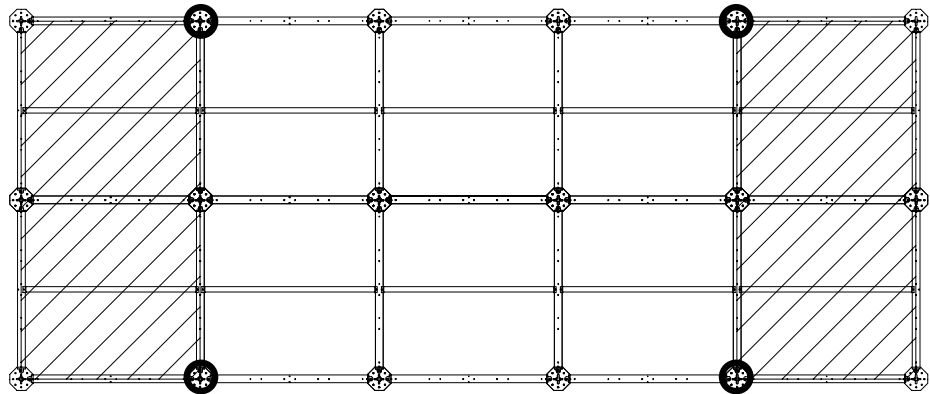
| Nominal size<br>[m] | Outer dimensions<br>[m] | Dead load<br>[kg] | Live load [kN/m <sup>2</sup> ] (based on load rating per hoist) |              |               |
|---------------------|-------------------------|-------------------|-----------------------------------------------------------------|--------------|---------------|
|                     |                         |                   | 500 kg hoist                                                    | 800 kg hoist | 1000 kg hoist |
| 4.80 x 7.20         | 5.40 x 7.90             | 1315              | 0.06                                                            | 0.26         | 0.39          |



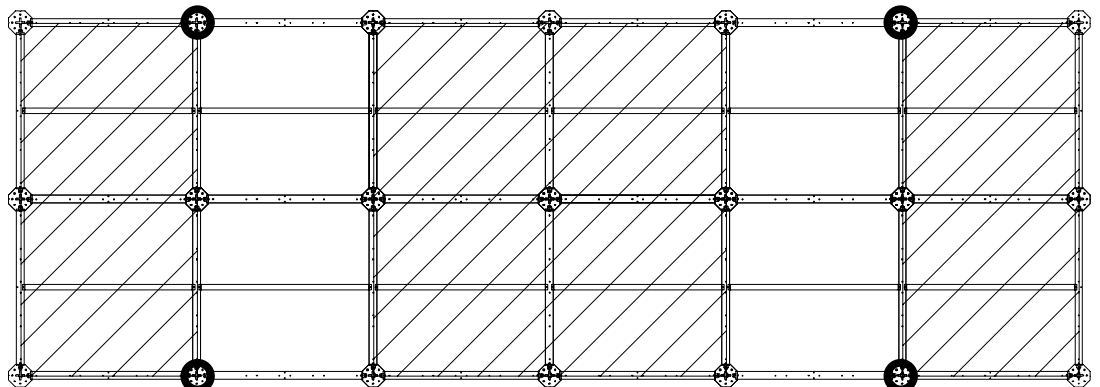
| Nominal size [m] | Outer dimensions [m] | Dead load [kg] | Live load [kN/m <sup>2</sup> ] (based on load rating per hoist) |              |               |
|------------------|----------------------|----------------|-----------------------------------------------------------------|--------------|---------------|
|                  |                      |                | 500 kg hoist                                                    | 800 kg hoist | 1000 kg hoist |
| 4.80 x 9.60      | 5.40 x 10.41         | 1723           | 0.00                                                            | 0.19         | 0.58          |



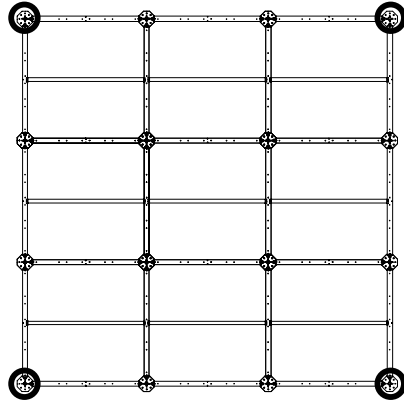
| Nominal size [m] | Outer dimensions [m] | Dead load [kg] | Live load [kN/m <sup>2</sup> ] (based on load rating per hoist) |              |               |
|------------------|----------------------|----------------|-----------------------------------------------------------------|--------------|---------------|
|                  |                      |                | 500 kg hoist                                                    | 800 kg hoist | 1000 kg hoist |
| 4.80 x 12.00     | 5.40 x 12.89         | 2109           | 0.00                                                            | 0.06         | 0.26          |



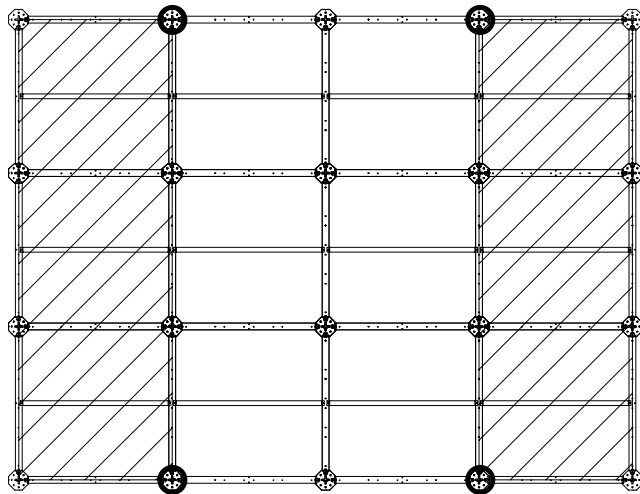
| Nominal size [m] | Outer dimensions [m] | Dead load [kg] | Live load [kN/m <sup>2</sup> ] (based on load rating per hoist) |              |               |
|------------------|----------------------|----------------|-----------------------------------------------------------------|--------------|---------------|
|                  |                      |                | 500 kg hoist                                                    | 800 kg hoist | 1000 kg hoist |
| 4.80 x 14.40     | 5.40 x 15.39         | 2494           | 0.00                                                            | 0.00         | 0.195         |



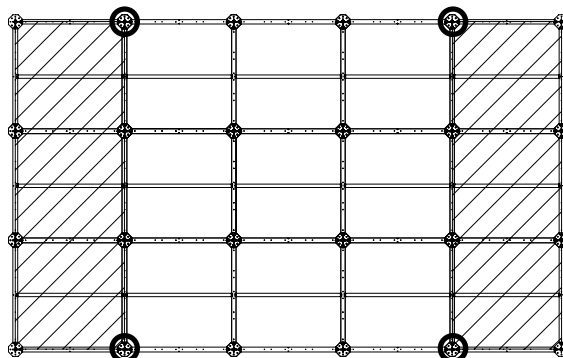
| Nominal size [m] | Outer dimensions [m] | Dead load [kg] | Live load [kN/m <sup>2</sup> ] (based on load rating per hoist) |              |               |
|------------------|----------------------|----------------|-----------------------------------------------------------------|--------------|---------------|
|                  |                      |                | 500 kg hoist                                                    | 800 kg hoist | 1000 kg hoist |
| 7.20 x 7.20      | 7.90 x 7.90          | 1882           | 0.00                                                            | 0.00         | 0.21          |



| Nominal size [m] | Outer dimensions [m] | Dead load [kg] | Live load [kN/m <sup>2</sup> ] (based on load rating per hoist) |              |               |
|------------------|----------------------|----------------|-----------------------------------------------------------------|--------------|---------------|
|                  |                      |                | 500 kg hoist                                                    | 800 kg hoist | 1000 kg hoist |
| 7.20 x 9.60      | 7.90 x 10.39         | 2449           | 0.00                                                            | 0.00         | 0.13          |



| Nominal size [m] | Outer dimensions [m] | Dead load [kg] | Live load [kN/m <sup>2</sup> ] (based on load rating per hoist) |              |               |
|------------------|----------------------|----------------|-----------------------------------------------------------------|--------------|---------------|
|                  |                      |                | 500 kg hoist                                                    | 800 kg hoist | 1000 kg hoist |
| 7.20 x 12.00     | 7.90 x 12.89         | 3039           | 0.00                                                            | 0.00         | 0.04          |



## 6 Standard layouts

The load rating of Quikdeck is dependent upon suspender spacing and configuration.

During assembly, qualified personnel must regularly check and inspect the loads to which the platform is subjected.

The operator is responsible for verifying a sufficient load rating of the structure, for monitoring the actual loads imposed on the platforms and for regular inspections of load-bearing elements of Quikdeck.

All live loads, concentrated loads and point loads referred to in this section in accordance with BS EN 12811.

There are three standard layouts for Quikdeck with resulting suspensions loads and layouts. The respective loads classes are in accordance with BS EN 12811 and are stated for each layout. Custom calculations must be made for concentrated loads in each separate case.

For any other type of suspension or load, please contact HÜNNEBECK's technical customer service.



### DANGER

#### Risk of collapse and of fatal injury!

Exceeding the load limits can cause components to come loose and fall from the Quikdeck.

- Install all components only as described and shown in this user guide.
- Do not exceed the load rating of the components.
- Do not impose loads on the components other than the ones specified in this user guide and on the static calculations for each specific application.
- Never subject Quikdeck to point loads.



### DANGER

#### Risk of collapse and of fatal injury!

The use of damaged or unsuitable components may result in a lower load rating or failure of the Quikdeck components.

- Do not use damaged or unsuitable components.
- Check that all components are in serviceable condition before use and at the specified time intervals.
- Ensure that all components are protected from potentially harmful factors particularly heat. Contact HÜNNEBECK if there are any doubts regarding potential harmful factors. Only components that meet the requirements specified in the section *Intended use* are suitable.



### WARNING

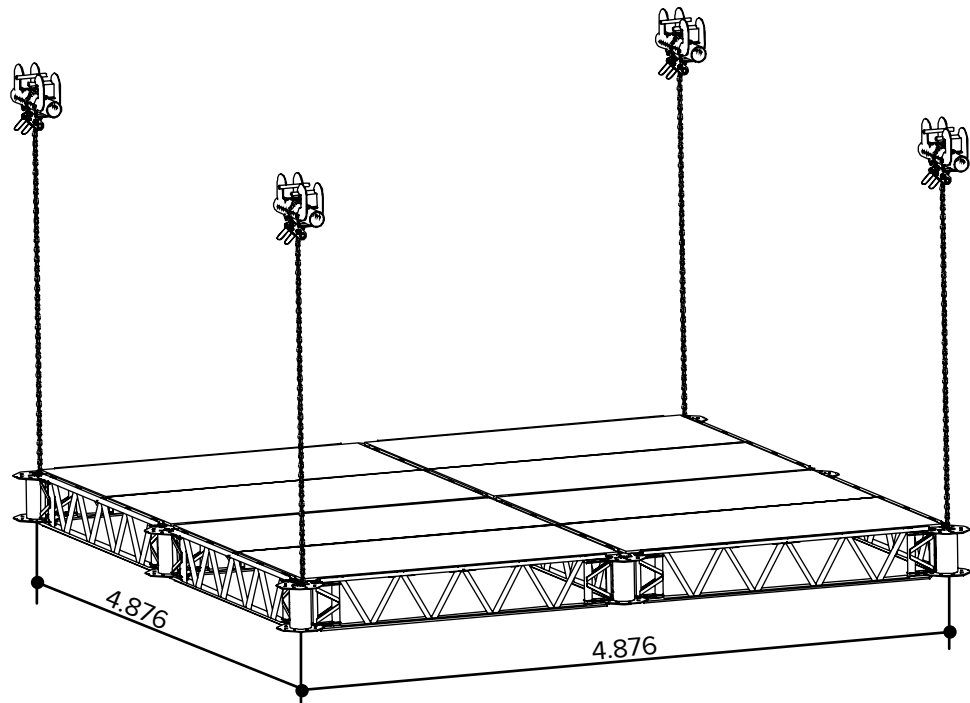
#### Risk of collapse and of serious injury!

Point loads applied to the Quikdeck, a scaffold for example, require a double layer of plywood to prevent damage to the decking.

The illustrations of the standard layouts do not show all requirements for the correct assembly of the layout. Some components were omitted for clarity such as the edge protection for example, which must never the less be installed in accordance with the relevant regulations.

6.1 Standard layout 1

Suspenders at every second Node in both directions, load rating pursuant to BS EN 12811: load class 1, 75 kg/m<sup>2</sup>



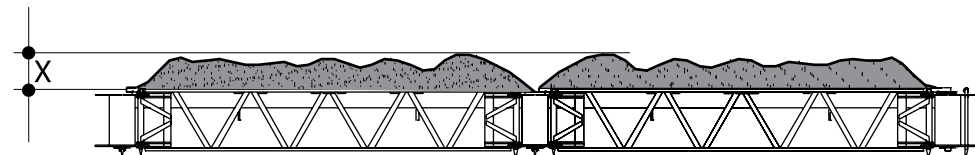
6.1.1 Distributed load rating

Loads distributed evenly on the platform can be stored on the Quikdeck platform up to the following limits:

| Material                  |                                        | Concrete debris      | Blasting media | Water |
|---------------------------|----------------------------------------|----------------------|----------------|-------|
| Grid configuration        | Maximum live load [kg/m <sup>2</sup> ] | Maximum depth X [mm] |                |       |
| 16 'x 16' (4.87 x 4.87 m) | 75 kg/m <sup>2</sup><br>(load class 1) | 47                   | 15             | 62    |

The values stated here apply to even distribution on the decks.

The values are averages and vary greatly depending on the bulk density. The values are not intended to be used for calculation purposes. They serve only to demonstrate to the user what the maximum live load of the various load classes means.



TIP

Information on the load ratings of other components and concentrated loads can be obtained from HÜNNEBECK.

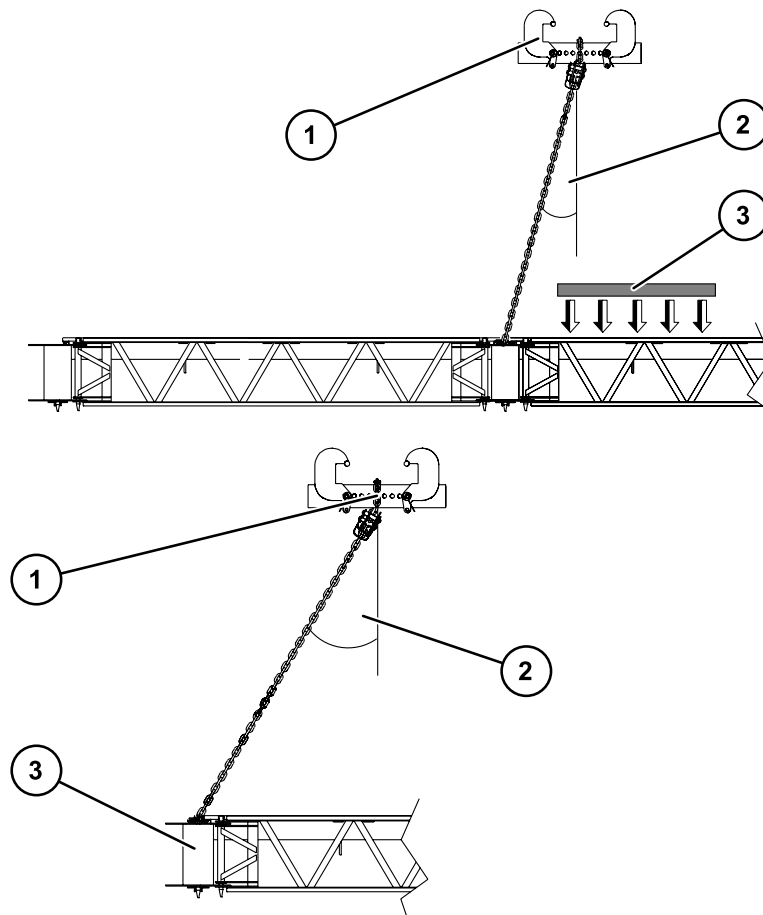
## 6.1.2 Suspender loads

### Angled suspenders

The load rating of angled suspenders is a factor of the angle. The angles are measured vertically at the chain retainer (1), between the chain and a vertical line. It is assumed that the load (3) is distributed evenly.

The following maximum interior suspender angles (2) apply to suspenders within the platform and on the perimeter or corner of the platform.

| Grid configuration    | Maximum interior suspender angle (2) [°] | Maximum perimeter suspender or corner suspender angle [°] |
|-----------------------|------------------------------------------|-----------------------------------------------------------|
| 16'×16' (4.87×4.87 m) | 10                                       | 30                                                        |



The following table shows the permitted combinations of load rating, suspender angle and grid configuration. The values apply to evenly distributed live loads. They include the dead load of 0.29 kN/m<sup>2</sup> attributable to the weight of the platform. The tributary areas indicated here are explained beginning on page 54.

Never exceed the values stated here without prior written consent from HÜNNEBECK.

### Suspender loads from inner nodes

#### 16'×16' (4.87×4.87 m) tributary area

#### Load class 1 (4 suspension chains: 75 kg/m<sup>2</sup>)

| Interior suspender angle [°] | Uniform live load [kg/m <sup>2</sup> ] | Load force components [kN] |               |         |
|------------------------------|----------------------------------------|----------------------------|---------------|---------|
|                              |                                        | Vertical                   | Chain tension | Lateral |
| 0                            | 75.0                                   | 31.28                      | 31.28         | 0.00    |
| 10                           | 75.0                                   | 31.28                      | 30.93         | 5.37    |

## Suspender loads from perimeter nodes

8'×16' (2.43×4.87 m) tributary area

Load class 1 (75 kg/m<sup>2</sup>)

| Interior suspender angle [°] | Uniform live load [kg/m <sup>2</sup> ] | Load force components [kN] |               |         |
|------------------------------|----------------------------------------|----------------------------|---------------|---------|
|                              |                                        | Vertical                   | Chain tension | Lateral |
| 0                            | 75                                     | 13.01                      | 13.01         | 0.00    |
| 10                           | 75                                     | 13.01                      | 13.21         | 2.29    |
| 15                           | 75                                     | 13.01                      | 13.48         | 3.49    |
| 30                           | 75                                     | 13.01                      | 15.02         | 7.51    |

The values stated for suspension chains apply to chain types QDCFT and QDC. Load reduction factors apply to angled suspenders (Refer to page 43).

The values stated for Beam Clamp Assemblies apply to Beam Clamp Tubes QDBCT12, QDBCT24 and QDBCT33. The values for other Beam Clamp Tubes can be obtained from HÜNNEBECK but are not part of the standard layout.

### 6.1.3 Cantilevering and uplift

Maximum cantilever up to 4.8 m (2no. QD Joist 8' with Nuts) permitted only during erection. Any combination of joist lengths may be used to achieve the cantilever length. All persons on the cantilever must be equipped with complete PPE and personal fall protection. All Nodes at the base of the cantilever must have properly installed suspenders. Follow the instructions beginning on page 85 for cantilevering platforms.

#### TIP

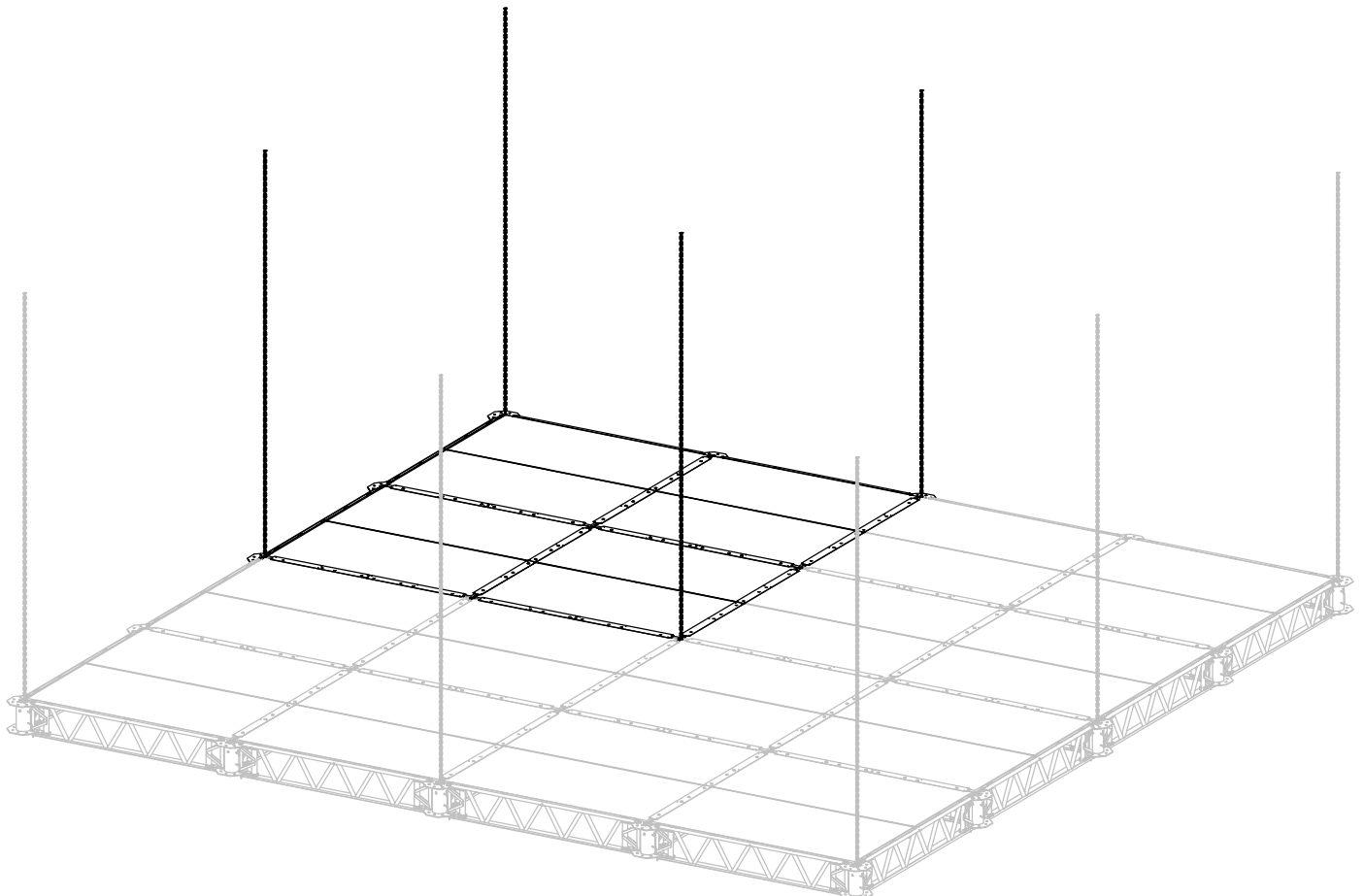
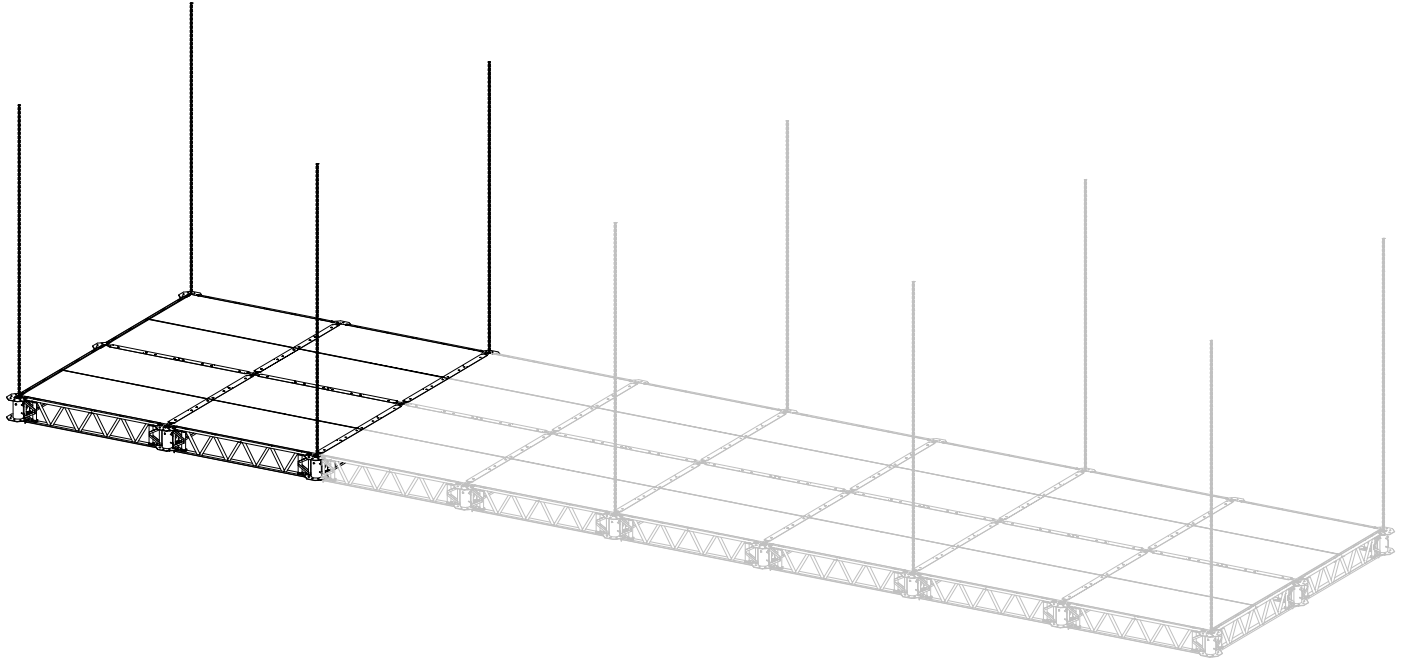
When the dead load is increased due to shorter joists, the live load capacity is reduced.

Proper uplift restraints are required. Follow the instructions beginning on page 92 to install uplift bracing. The values stated here do not apply to grids.

| Grid configuration    | Maximum cantilever distance [m] | Maximum uplift load [kg/m <sup>2</sup> ] |
|-----------------------|---------------------------------|------------------------------------------|
| 16'×16' (4.87×4.87 m) | 2.43                            | 146                                      |

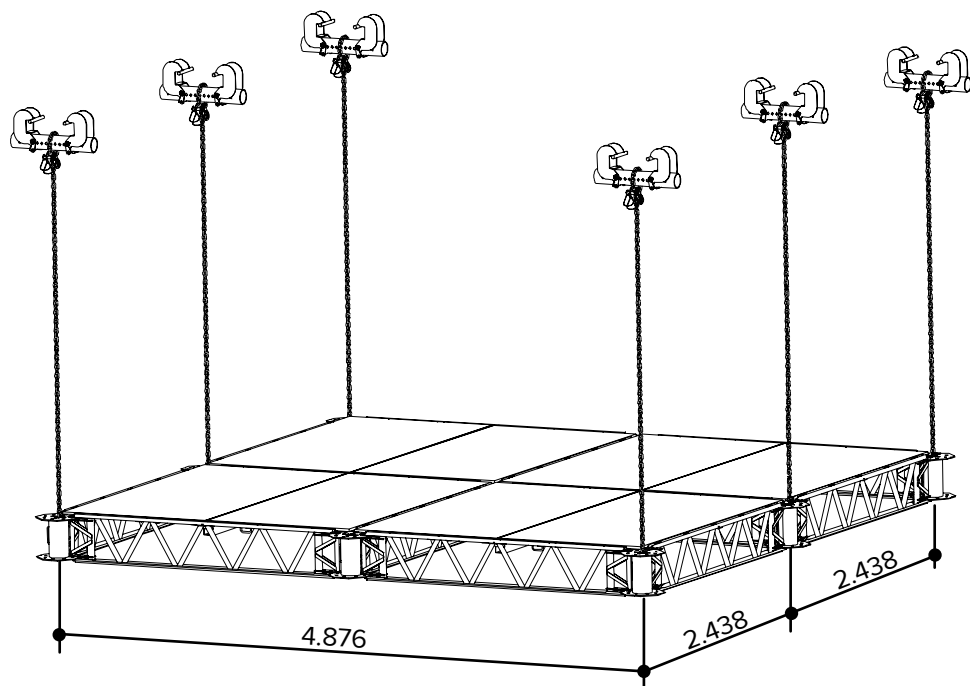
#### 6.1.4 Extending the platform

The platform can be extended in one or more directions and the typical assembly can be seen next. All suspender loads on inner and perimeter nodes of the extended platforms are stated on page 43.



6.2 Standard layout 2

Suspenders at every second Node in one direction and at every node in the other direction, load rating pursuant to BS EN 12811: up to load class 3, 200 kg/m<sup>2</sup>



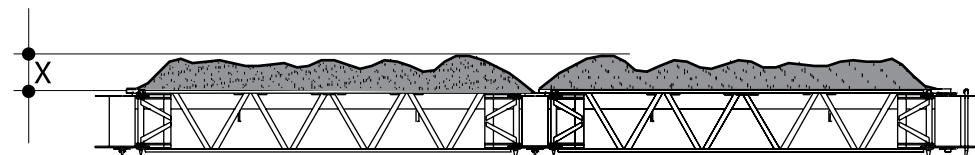
6.2.1 Distributed load rating

Loads distributed evenly on the platform can be stored on the Quikdeck platform up to the following limits:

| Material             |                                         | Concrete debris      | Blasting media | Water |
|----------------------|-----------------------------------------|----------------------|----------------|-------|
| Grid configuration   | Maximum live load [kg/m <sup>2</sup> ]  | Maximum depth X [mm] |                |       |
| 8'×16' (2.43×4.87 m) | 200 kg/m <sup>2</sup><br>(load class 3) | 145                  | 41             | 166   |
|                      | 150 kg/m <sup>2</sup><br>(load class 2) | 108                  | 30             | 124   |

The values stated here apply to even distribution on the decks.

The values are averages and vary greatly depending on the bulk density. The values are not intended to be used for calculation purposes. They serve only to demonstrate to the user what the maximum live load of the various load classes means.



TIP

Information on the load ratings of other components and concentrated loads can be obtained from HÜNNEBECK.

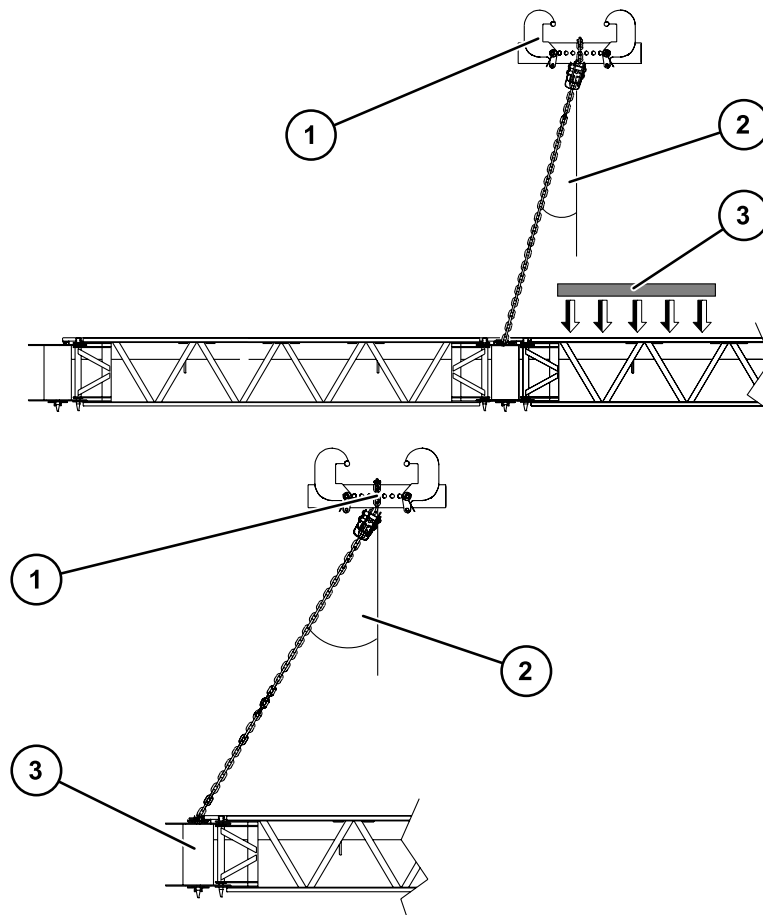
## 6.2.2 Suspender loads

### Angled suspenders

The load rating of angled suspenders is a factor of the angle. The angles are measured vertically at the chain retainer (1), between the chain and a vertical line. It is assumed that the load (3) is distributed evenly.

The following maximum interior suspender angles (2) apply to suspenders within the platform and on the perimeter or corner of the platform.

| Grid configuration     | Maximum interior suspender angle (2) [°] | Maximum perimeter suspender or corner suspender angle [°] |
|------------------------|------------------------------------------|-----------------------------------------------------------|
| 8'x16' (2.43 x 4.87 m) | 15                                       | 30                                                        |



The following table shows the permitted combinations of load rating, suspender angle and grid configuration. The values apply to evenly distributed live loads. They include the dead load of 0.29 kN/m<sup>2</sup> attributable to the weight of the platform. The tributary areas indicated here are explained beginning on page 54.

Never exceed the values stated here without prior written consent from HÜNNEBECK.

### Suspender loads from inner nodes

#### 8'x16' (2.43x4.87 m) tributary area

#### Load class 3 (6 suspension chains: 200 kg/m<sup>2</sup>)

| Interior suspender angle [°] | Uniform live load [kg/m <sup>2</sup> ] | Load force components [kN] |               |         |
|------------------------------|----------------------------------------|----------------------------|---------------|---------|
|                              |                                        | Vertical                   | Chain tension | Lateral |
| 0                            | 200.0                                  | 34.13                      | 34.13         | 0.00    |
| 10                           | 200.0                                  | 34.13                      | 34.66         | 6.02    |
| 15                           | 200.0                                  | 34.13                      | 35.34         | 9.15    |

## Suspender loads from perimeter nodes

8'×8' (2.43×2.43 m) tributary area

Load class 3 (200 kg/m<sup>2</sup>)

| Interior<br>suspender angle<br>[°] | Uniform live load [kg/<br>m <sup>2</sup> ] | Load force components [kN] |               |         |
|------------------------------------|--------------------------------------------|----------------------------|---------------|---------|
|                                    |                                            | Vertical                   | Chain tension | Lateral |
| 0                                  | 200.0                                      | 17.40                      | 17.40         | 0.00    |
| 10                                 | 200.0                                      | 17.40                      | 17.68         | 3.07    |
| 15                                 | 200.0                                      | 17.40                      | 18.01         | 4.66    |
| 30                                 | 200.0                                      | 17.40                      | 20.09         | 10.05   |

The values stated for suspension chains apply to chain types QDCFT and QDC. Load reduction factors apply to angled suspenders (Refer to page 47).

The values stated for Beam Clamp Assemblies apply to Beam Clamp Tubes QDBCT12, QDBCT24 and QDBCT33. The values for other Beam Clamp Tubes can be obtained from HÜNNEBECK but are not part of the standard layout.

### 6.2.3 Cantilevering and uplift

Maximum cantilever up to 4.8 m (2no. QD Joist 8' with Nuts) permitted only during erection. Any combination of joist lengths may be used to achieve the cantilever length. All persons on the cantilever must be equipped with complete PPE and personal fall protection. All Nodes at the base of the cantilever must have properly installed suspenders. Follow the instructions beginning on page 85 for cantilevering platforms.

#### TIP

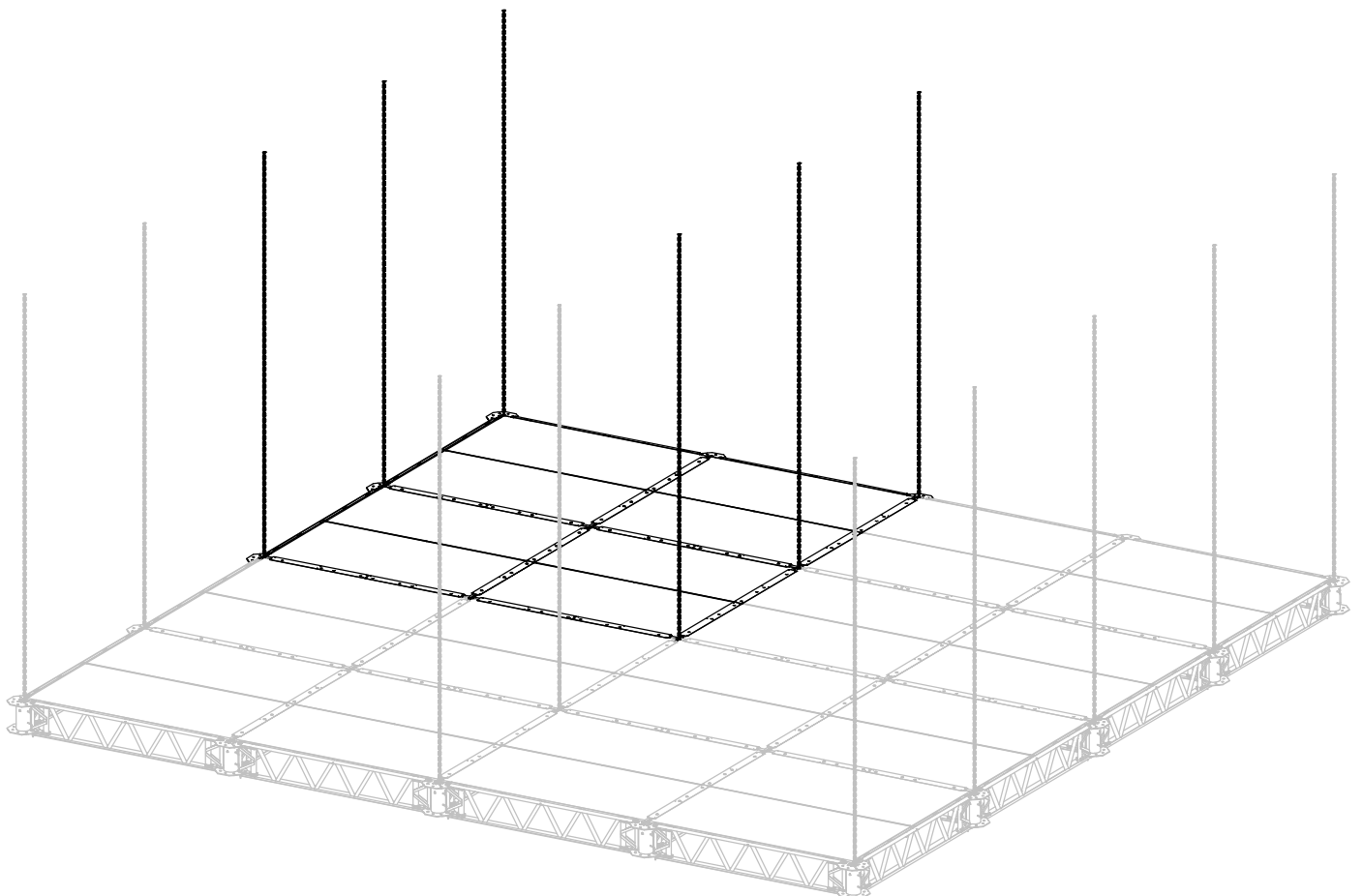
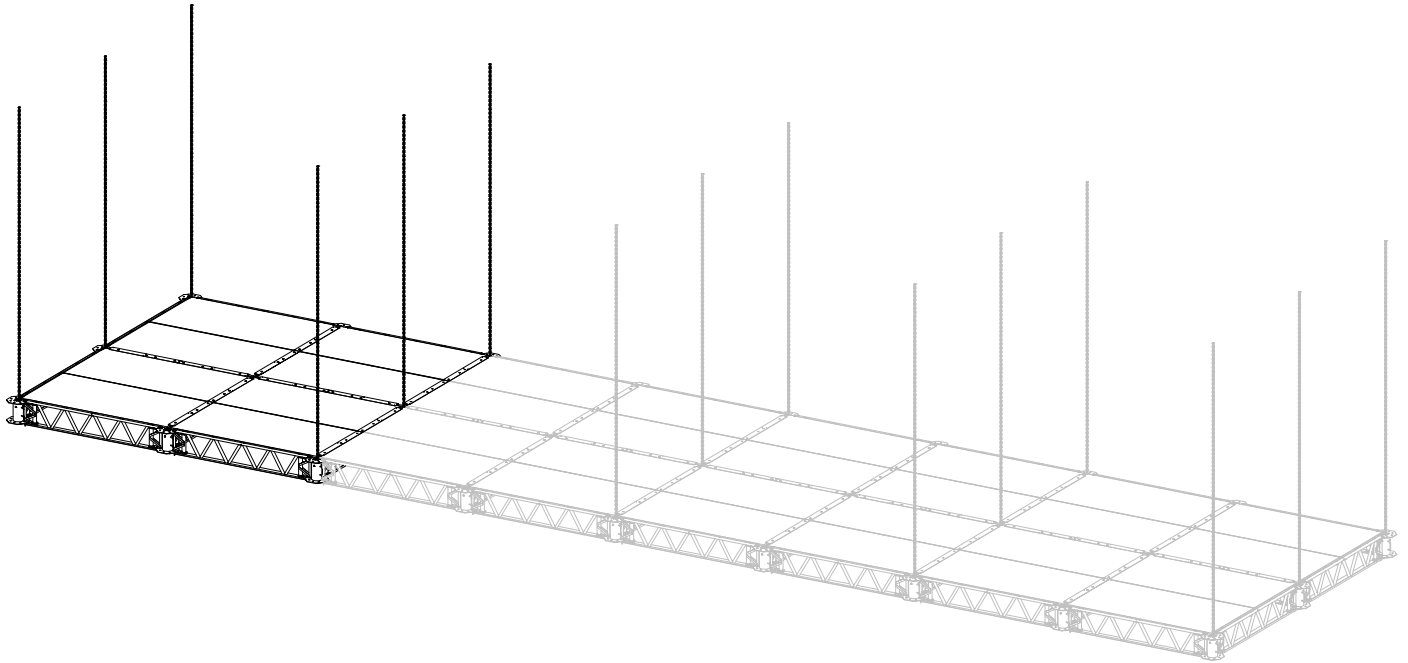
When the dead load is increased due to shorter joists, the live load capacity is reduced.

Proper uplift restraints are required. Follow the instructions beginning on page 92 to install uplift bracing. The values stated here do not apply to grids.

| Grid configuration   | Maximum cantilever<br>distance [m] | Maximum uplift load [kg/m <sup>2</sup> ] |
|----------------------|------------------------------------|------------------------------------------|
| 8'×16' (2.43×4.87 m) | 2.43                               | 146                                      |

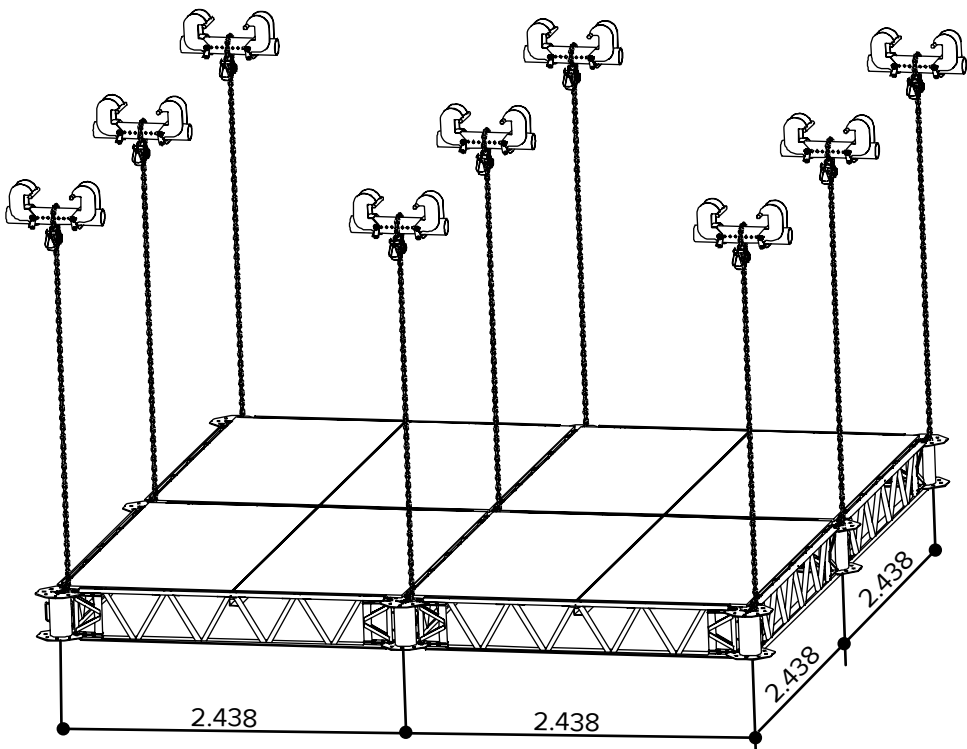
#### 6.2.4 Extending the platform

The platform can be extended in one or more directions and the typical assembly can be seen next. All suspender loads on inner and perimeter nodes of the extended platforms are stated on page 47.



6.3 Standard layout 3

Suspenders at every second Node in both directions, load rating pursuant to BS EN 12811: load class 4, 300 kg/m<sup>2</sup>



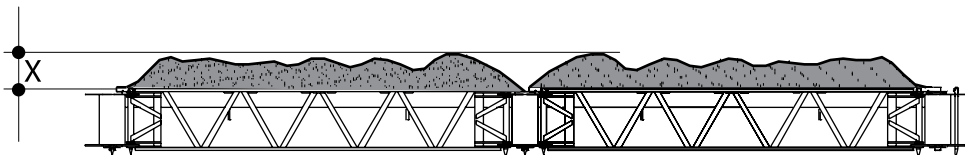
6.3.1 Distributed load rating

Loads distributed evenly on the platform can be stored on the Quikdeck platform up to the following limits:

| Material            |                                         | Concrete debris      | Blasting media | Water |
|---------------------|-----------------------------------------|----------------------|----------------|-------|
| Grid configuration  | Maximum live load [kg/m <sup>2</sup> ]  | Maximum depth X [mm] |                |       |
| 8'×8' (2.43×2.43 m) | 300 kg/m <sup>2</sup><br>(load class 4) | 211                  | 84             | 253   |

The values stated here apply to even distribution on the decks.

The values are averages and vary greatly depending on the bulk density. The values are not intended to be used for calculation purposes. They serve only to demonstrate to the user what the maximum live load of the various load classes means.



TIP

Information on the load ratings of other components and concentrated loads can be obtained from HÜNNEBECK.

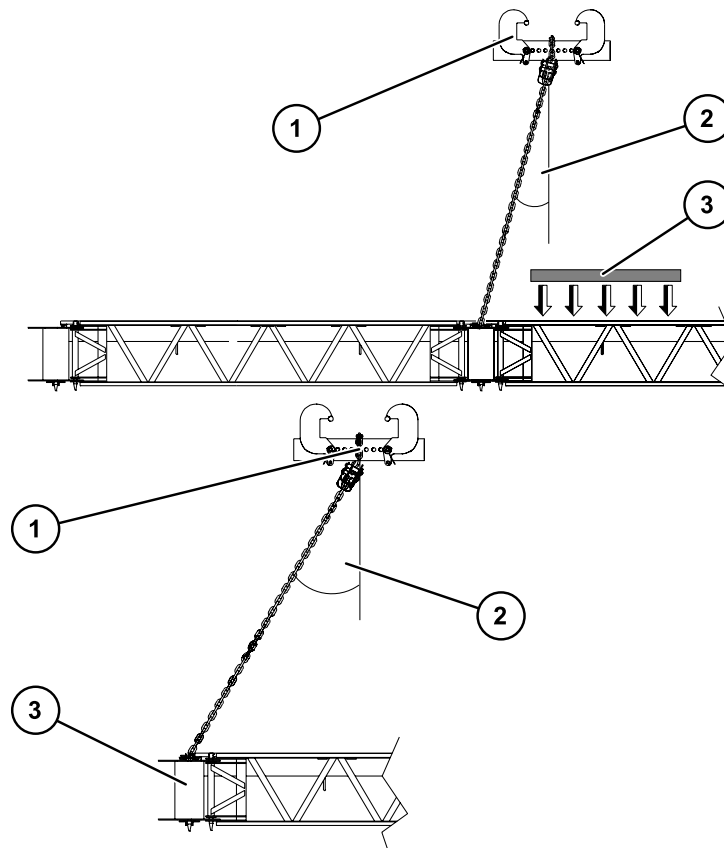
### 6.3.2 Suspender loads

#### Angled suspenders

The load rating of angled suspenders is a factor of the angle. The angles are measured vertically at the chain retainer (1), between the chain and a vertical line. It is assumed that the load (3) is distributed evenly.

The following maximum interior suspender angles (2) apply to suspenders within the platform and on the perimeter or corner of the platform.

| Grid configuration | Maximum interior suspender angle (2) [°] | Maximum perimeter suspender or corner suspender angle [°] |
|--------------------|------------------------------------------|-----------------------------------------------------------|
| 8'×8' (2.43×2.43m) | 30                                       | 45                                                        |



The following table shows the permitted combinations of load rating, suspender angle and grid configuration. The values apply to evenly distributed live loads. They include the dead load of 0.29 kN/m<sup>2</sup> attributable to the weight of the platform. The tributary areas indicated here are explained beginning on page 54.

Never exceed the values stated here without prior written consent from HÜNNEBECK.

#### Suspender loads from inner nodes

**8'×8' (2.43×2.43 m) tributary area**

**Load class 4 (9 suspension chains: 300 kg/m<sup>2</sup>)**

| Interior suspender angle [°] | Uniform live load [kg/m <sup>2</sup> ] | Load force components [kN] |               |         |
|------------------------------|----------------------------------------|----------------------------|---------------|---------|
|                              |                                        | Vertical                   | Chain tension | Lateral |
| 0                            | 300.0                                  | 22.50                      | 22.50         | 0.00    |
| 10                           | 300.0                                  | 22.50                      | 22.84         | 3.97    |
| 15                           | 300.0                                  | 22.50                      | 23.29         | 6.03    |
| 30                           | 300.0                                  | 22.50                      | 25.98         | 13.00   |

## Suspender loads from perimeter nodes

**4' × 8' (1.20 × 2.43 m) tributary area**

**Load class 4 (300 kg/m<sup>2</sup>)**

| Interior suspender angle [°] | Uniform live load [kg/m <sup>2</sup> ] | Load force components [kN] |               |         |
|------------------------------|----------------------------------------|----------------------------|---------------|---------|
|                              |                                        | Vertical                   | Chain tension | Lateral |
| 0                            | 300.0                                  | 11.88                      | 11.88         | 0.00    |
| 10                           | 300.0                                  | 11.88                      | 12.06         | 2.09    |
| 15                           | 300.0                                  | 11.88                      | 12.30         | 3.18    |
| 30                           | 300.0                                  | 11.88                      | 13.71         | 6.86    |
| 45                           | -                                      | 11.88                      | 16.79         | 11.87   |

The values stated for suspension chains apply to chain types QDCFT and QDC. Load reduction factors apply to angled suspenders (Refer to page 51).

The values stated for Beam Clamp Assemblies apply to Beam Clamp Tubes QDBCT12, QDBCT24 and QDBCT33. The values for other Beam Clamp Tubes can be obtained from HÜNNEBECK but are not part of the standard layout.

### 6.3.3 Cantilevering and uplift

Maximum cantilever up to 4.8 m (2no. QD Joist 8' with Nuts) permitted only during erection. Any combination of joist lengths may be used to achieve the cantilever length. All persons on the cantilever must be equipped with complete PPE and personal fall protection. All Nodes at the base of the cantilever must have properly installed suspenders. Follow the instructions beginning on page 85 for cantilevering platforms.

#### TIP

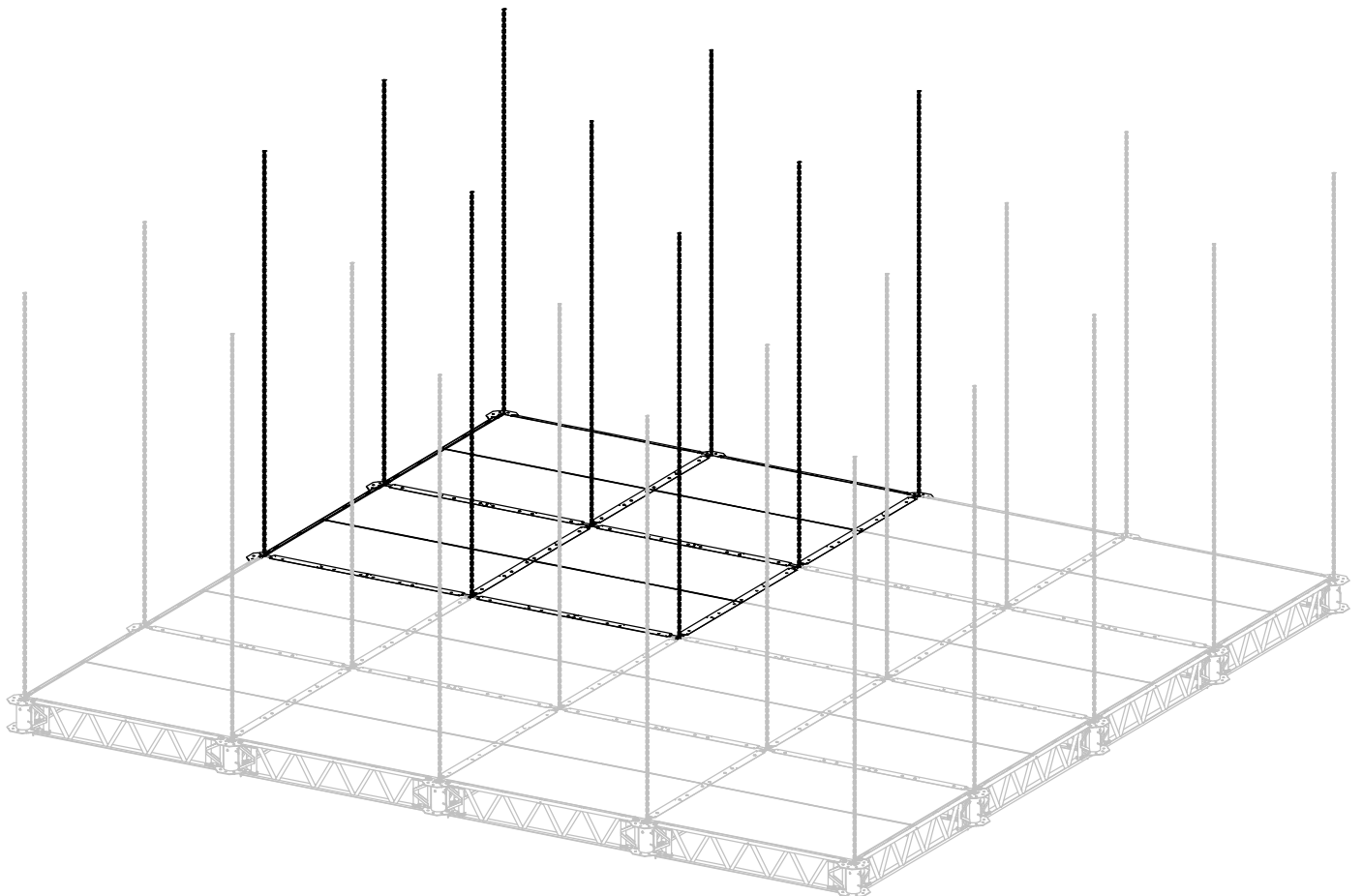
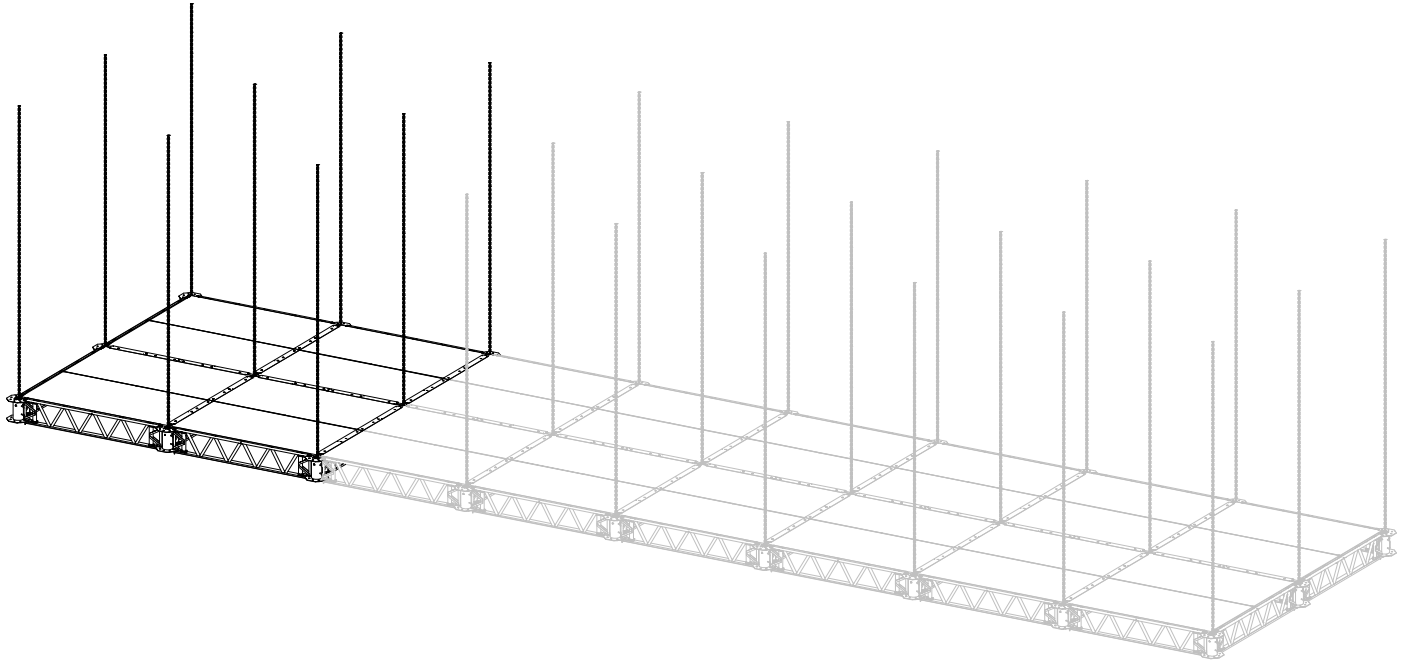
When the dead load is increased due to shorter joists, the live load capacity is reduced.

Proper uplift restraints are required. Follow the instructions beginning on page 92 to install uplift bracing. The values stated here do not apply to grids.

| Grid configuration      | Maximum cantilever distance [m] | Maximum uplift load [kg/m <sup>2</sup> ] |
|-------------------------|---------------------------------|------------------------------------------|
| 8' × 8' (2.43 × 2.43 m) | 1.2                             | 146                                      |

### 6.3.4 Extending the platform

The platform can be extended in one or more directions and the typical assembly can be seen next. All suspender loads on inner and perimeter nodes of the extended platforms are stated on page 51.



6.4 Non-standard layouts

Non-standard layout of Quikdeck are possible however they have to be especially designed for each specific application. This section provides some guidance however it is not a comprehensive guide.

When designing a non-standard layout, care should be taken to ensure all requirements are met and that all relevant regulations are adhered to.

Quikdeck should only be designed by competent persons.

TIP

The illustrations shown in this section are plan views of the typical starter platforms and are not all at the same scale.

The Nodes serving as hoist attachment points are labelled with this symbol:

6.4.1 Tributary areas

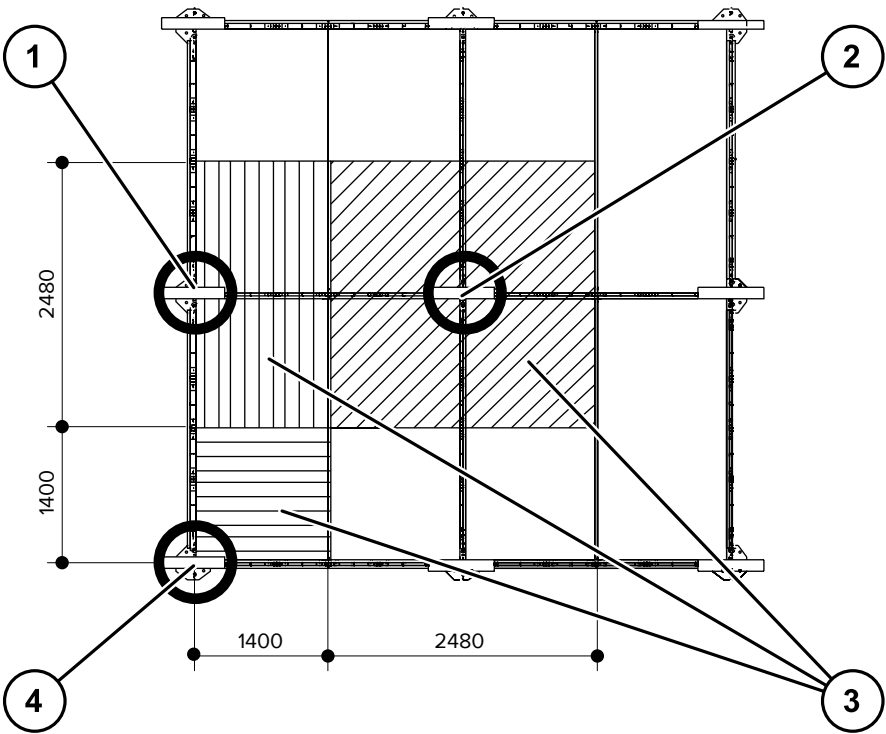
A tributary area is a segment of the platform supported by a certain suspender. The greater the tributary area a suspender has to support, the greater is the tension in the chain.

Suspenders on the interior of the platform generally have large tributary areas. This is why interior suspenders are typically subjected to greater loads. Suspenders at the edges of the platform have smaller tributary areas, thus bearing lower loads.

Grid configuration 8 × 8 (2.43 × 2.43 m)

| Uniform live load [kN/m <sup>2</sup> ] | Tributary area [m <sup>2</sup> ] |                        |                      |
|----------------------------------------|----------------------------------|------------------------|----------------------|
|                                        | Edge suspender (1)               | Interior suspender (2) | Corner suspender (4) |
| 3.00                                   | 3.50                             | 6.20                   | 1.98                 |

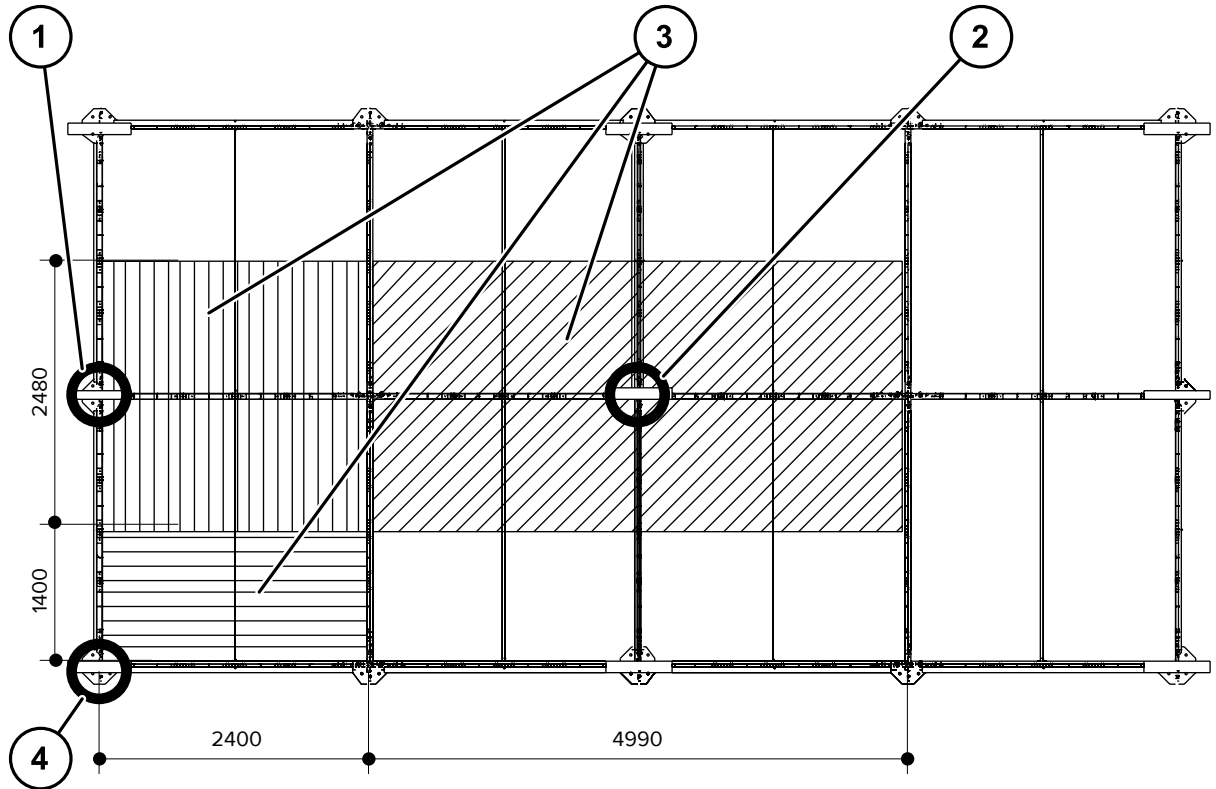
The shaded areas (3) in the following illustrations indicate the tributary areas.



**Grid configuration 8 × 16 (2.43 × 4.87 m)**

| Uniform live load [kN/<br>m <sup>2</sup> ] | Tributary area [m <sup>2</sup> ] |                        |                      |
|--------------------------------------------|----------------------------------|------------------------|----------------------|
|                                            | Edge suspender (1)               | Interior suspender (2) | Corner suspender (4) |
| 2.40                                       | 6.60                             | 12.50                  | 3.700                |

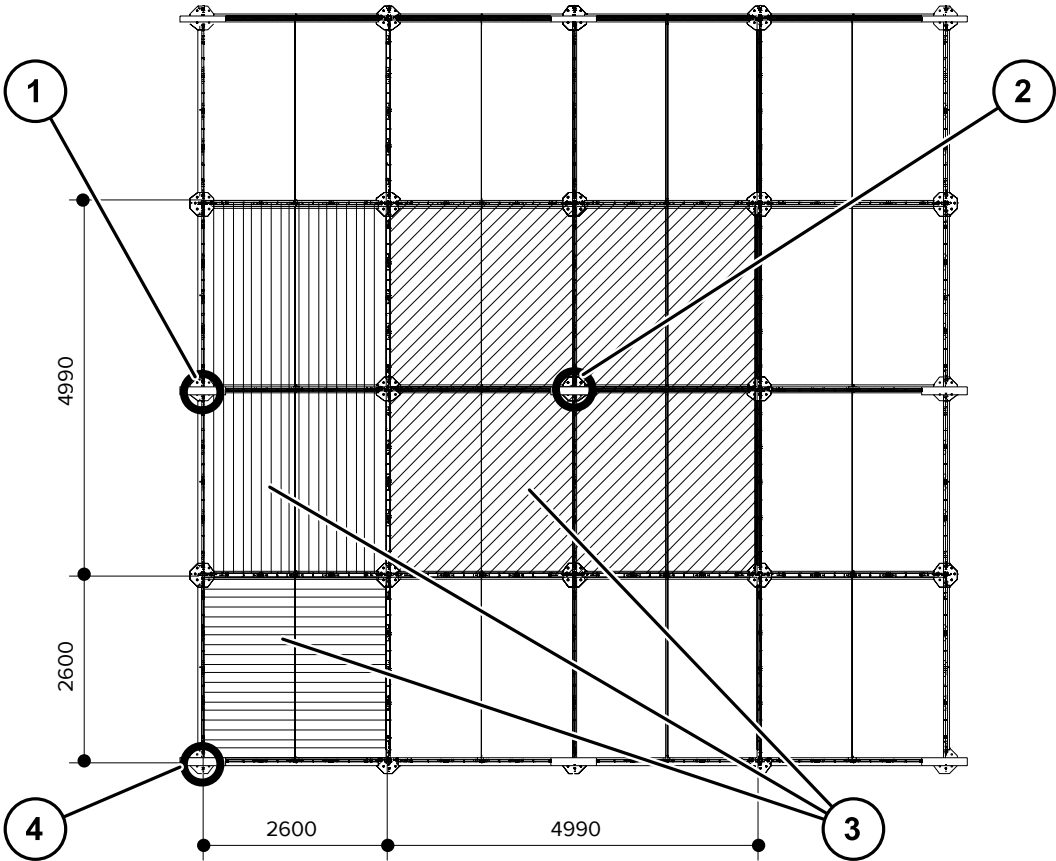
The shaded areas (3) in the following illustrations indicate the tributary areas.



Grid configuration 16 × 16 (4.87 × 4.87 m)

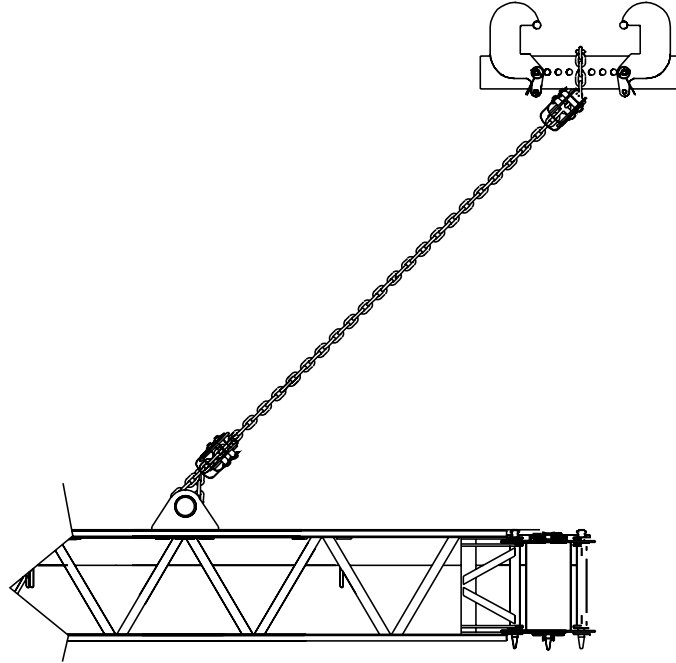
| Uniform live load [kN/<br>m <sup>2</sup> ] | Tributary area [m <sup>2</sup> ] |                        |                      |
|--------------------------------------------|----------------------------------|------------------------|----------------------|
|                                            | Edge suspender (1)               | Interior suspender (2) | Corner suspender (4) |
| 1.20                                       | 13.20                            | 24.87                  | 7.00                 |

The shaded areas (3) in the following illustrations indicate the tributary areas.



### **Suspending by Auxiliary Suspender**

Applications using Auxiliary Suspenders (Refer to the following illustration) are considered special applications and are not covered by this user guide. Information on the load rating and suspension angle for the specific case can be obtained from HÜNNEBECK.



### **Deck load ratings**

The operator is responsible for ensuring that the deck can bear all loads which are not described by the load classes. Such loads can be the result of e.g. erecting scaffolds or using equipment to transport materials on the platform.

Supporting these loads may require additional measures such as:

- Stability testing
- Additional decks
- Additional platform bracing

These measures require separate proof of structural stability.

## 7 Securing the platform to load-bearing structures

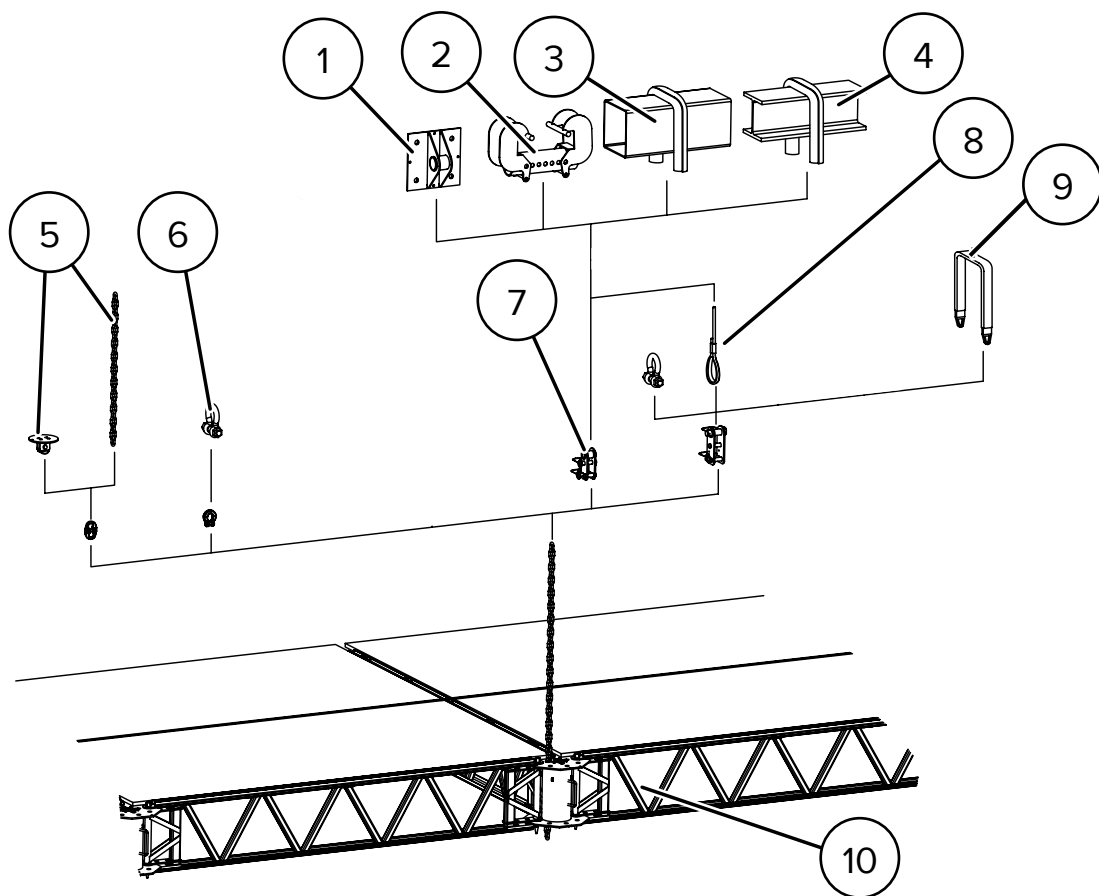
The following are some of the methods by which the anchors required to safely and securely suspend the platforms can be affixed:

- Beam Clamps
- Lanyards or chains wrapped around a load-bearing structure
- Anchoring through a load-bearing structure

The best-suited method is a factor of the specific application and of local regulations. It must be specified by the operator in the assembly instructions.

The mounting part and the load-bearing structure have to be able to sufficiently accommodate the calculated loads.

The following illustration shows parts that can be used to attach chains.



- 1 Concrete anchor
- 2 Beam Clamp
- 3 Chain protector for box beam
- 4 Chain protector for I-beam
- 5 Chain connector
- 6 Shackle
- 7 QD Chain Coupler Assembly QDCC
- 8 Alternative chain retainers
- 9 Web Sling
- 10 Quikdeck

#### **7.4.1 Attaching to a load-bearing structure (using Beam Clamps)**

When this method is used, mounting parts are attached directly to the load-bearing structure.

This method offers the following benefits:

- Use of standardised components
- The load-bearing structure does not need to be modified.
- The mounting parts can be reused.

So whenever possible, choose this method to suspend the platform.

#### **7.4.2 Lanyards or chains wrapped around a load-bearing structure**

Use this method when it is not possible to attach the Beam Clamps to a load-bearing structure. Wrap the platform suspension chain around a suitable component with a sufficient load rating. The component's load rating must be verified or ensured.

#### **7.4.3 Anchoring through the structure**

With this method, the suspender is secured through holes in the load-bearing structure. The holes can be ones that already exist, or new ones can be drilled. Possible drilling points must be coordinated with the client and the structural engineer.

#### **7.4.4 Anchoring by adding dowelling**

Dowels in compliance with ETA are used for this method. All requirements stipulated by the manufacturer documentation and the ETA must be complied with.

### **7.1 Special applications**

Any special cases not described in this user guide must be coordinated with and approved by HÜNNEBECK.

## 8 Assembling Quikdeck

### 8.1 Preparing for assembly

#### 8.1.1 Requirements

- Step 1** The following requirements must be met:
- A risk assessment of the specific application has to be available.
  - The components needed for the specific application and the load limits have to be determined by a qualified person.
  - The operator is responsible for compiling assembly instructions that provide the following information:
    - List of required components and their specifications
    - Tools and material required
    - Personnel qualification criteria
    - Step-by-step erection diagram
    - Load limits
    - Instructions regarding communication at the construction site and with anyone else involved
    - Safety/rescue plan for the site, including specification of means of access and escape
    - Environmental protection guidelines
    - Any other information needed to ensure safe use of Quikdeck
  - Working and hazardous areas must be identified and, when appropriate, cordoned off.

#### 8.1.2 Providing tools and material

Additional tools and materials such as a hoist or packaging and storage materials are needed to erect and assemble platforms. For the greatest degree of safety and efficiency, plan ahead to secure adequate unloading and staging areas as well as suitable material handling equipment.

If ground access and hoisting and/or material handling equipment are available, it may be possible to unload materials directly onto the starter platform. Always be aware of the weight imposed on the platform. It is likely that the greatest loads imposed on the platform will be from the staging of Quikdeck components.



#### **DANGER**

##### **Risk of fatal injury from using damaged or unapproved components!**

Damaged components may result in a diminished load rating or failure of Quikdeck components.

- Use only the components stated in this user guide.
- Do not use damaged or unapproved components.
- Check that all components are in serviceable condition before using them.
- Repair damaged components immediately or replace damaged components with new ones of the same type.

- Step 1** Provide all required material and tools and check that they are in serviceable condition.

## 8.2 Attaching to the load-bearing structure

The type, quantity and position of the hoist attachment points on the load-bearing structure are specified in the assembly instructions.



### DANGER

#### Risk of fatal injury when falling from load-bearing structures!

Missing, damaged, incorrectly or inadequately fastened mounting parts may cause Quikdeck to fall due to a diminished load rating.

- Anyone entering an area of the Quikdeck system that is not properly secured with complete guard rails must use additional and separate fall protection to prevent falling from the platform.
- Attach the personal fall protection (harness) to structures that are independent of Quikdeck.
- Ensure that, when the wind speed creates a velocity pressure greater than 0.2 kN/m<sup>2</sup> (18 km/h), no one is permitted to work on or near Quikdeck.

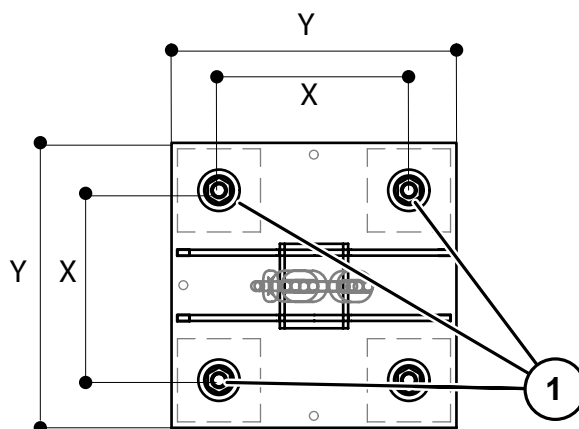
Information on suitable fall protection can be found in the section “Personal protective equipment,” beginning on page 12.

### 8.2.1 Creating attachment points

If the existing hoist attachment points cannot be used, attachment points have to be created before beginning work. How this is done depends on the type of attachment points specified in the assembly instructions.

#### Installing QD Suspension Concrete Anchor Cap 8.8K

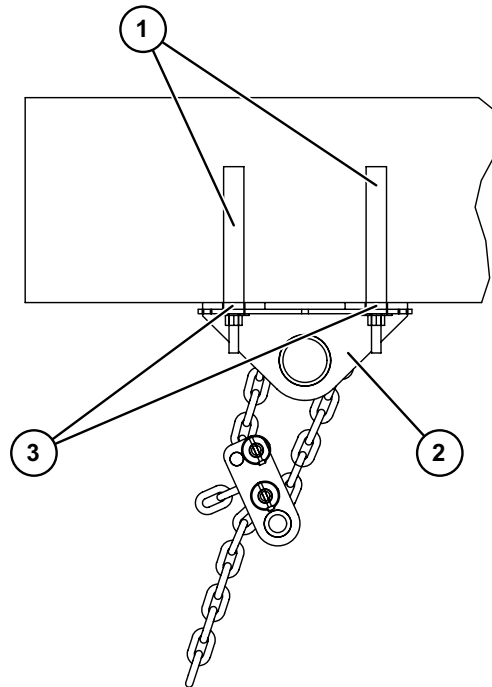
This section describes how to place concrete anchors. The requirements regarding the calculated loads stated in the approval document for the respective dowel used must be met at each hoist attachment point, ensuring that the anchor is attached properly and not overloaded.



X=203.2 mm (Ø23), Y=304.8 mm (Ø23)

**Step 1** Drill four holes as specified by the dowel manufacturer.

**Step 2** Attach the Suspension Concrete Anchor Cap 8.8K (2) to the load-bearing structure by inserting four screws (1) into the anchor bores (3).



**Step 3** Repeat these steps for each concrete anchor needed.

**Step 4** Always comply with the cure time when using chemical anchors.

The chain can now be secured to the concrete anchor as described beginning on page 80. The procedure is the same as that for securing the chain to the Beam Clamps.

### Installing Chain Thru Slab Connect SA-TSC8.8K

Place the Chain Thru Slab Connect SA-TSC8.8K over the bores used for anchoring. Use a Hammer Lock 99-21323 to attach an anchor chain to the underside of the load-bearing element. Attach the Chain-to-Wire Rope Coupler Assembly QDCWRC to the anchor chain. It connects the chain to the Quikdeck suspender.

Angled suspenders may not be attached directly to Chain Thru Slab Connects SA-TSC8.8K.

At each hoist attachment point there has to be a bore that meets the following requirements:

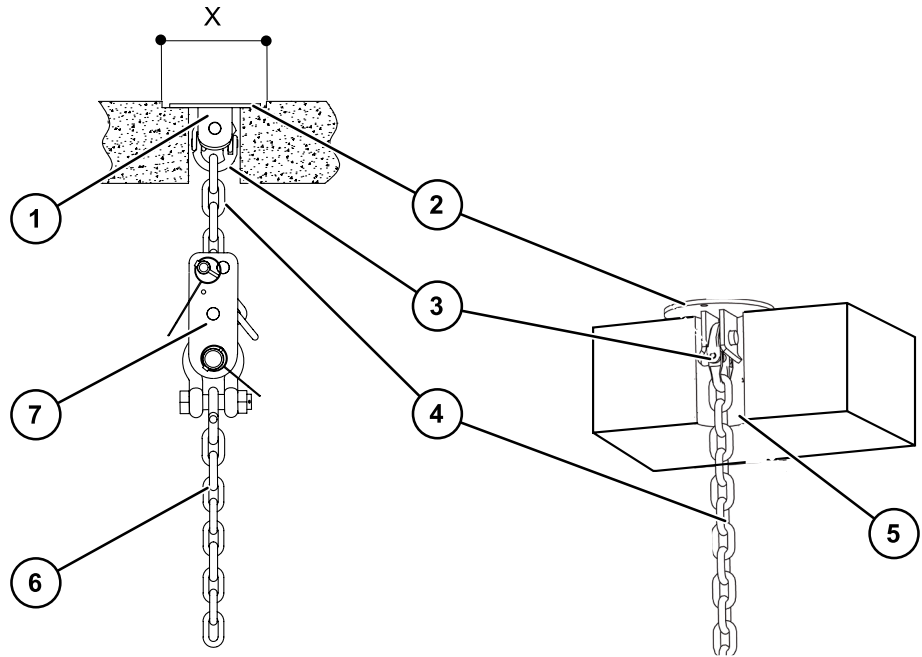
- The load-bearing concrete structure must have a sufficient load rating at the hoist attachment point to bear the anticipated load.
- Clearance (the area "X") of 0.15 m around all sides of the bore on the top and bottom of the load-bearing structure is essential.
- There has to be a through hole of at least 75 mm diameter at every hoist attachment point on the load-bearing structure.

**Step 1** Drill the respective hole (5) for the Chain Thru Slab Connect (1).

**Step 2** Use the Hammer Lock 99-(3) to attach the anchor chain (4) to the Chain Thru Slab Connect.

**Step 3** Pass the anchor chain through the hole until the Chain Thru Slab Connect is in the hole and the retaining surface rests against the load-bearing structure.

- Step 4** Use a Chain-to-Wire Rope Coupler Assembly QDCWRC (7) to connect the Chain (6) to the anchor chain.

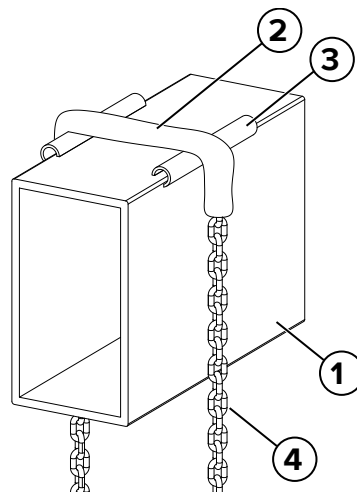


- Step 5** Repeat these steps for each Chain Thru Slab Connect needed.  
Now the Chain can be connected to the Node or to the Auxiliary Suspender Bracket QDSAB as described beginning on page 72.

### 8.2.2 Wrapping around the existing structure

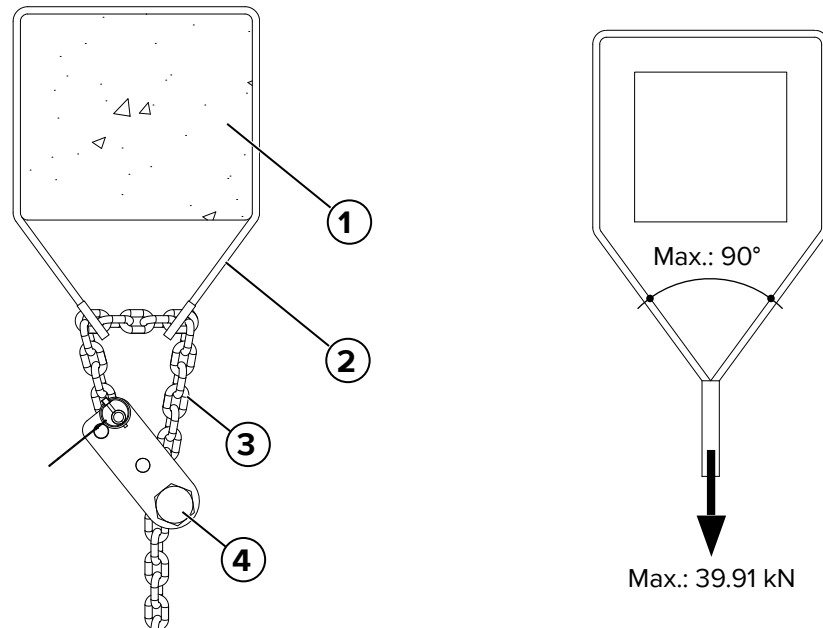
Suspension points can be created by using the existing structure without using any anchors. The chain can be wrapped around the structure providing that the structure can withstand the extra imposed loads.

#### Using the SA Chain Wear Pad 10" x 3' Velcro



| Item | Part Code   | Description                       |
|------|-------------|-----------------------------------|
| 1    | ---         | Box beam                          |
| 2    | SA-PAD10X3V | SA Chain Wear Pad 10" x 3' Velcro |
| 3    | QDCS38      | Chain Softener                    |
| 4    | ---         | Chain                             |

## Using the Web Sling



| Item | Part Code | Description               |
|------|-----------|---------------------------|
| 1    | ---       | Concrete beam             |
| 2    | ---       | Web Sling                 |
| 3    | ---       | Chain                     |
| 4    | QDCCC     | QD Chain Coupler Assembly |

## 8.3 Assembling starter platform

The starter platform is the starting point for the complete work platform when beginning to assemble the access system. It is usually assembled on the ground and then hoisted to the required position and suspended there.

### TIP

If there is no suitable horizontal surface available on which to assemble the starter platform, Screw Jacks with Base Plates and Adapters can be used to level the starter platform (Refer to page 34).

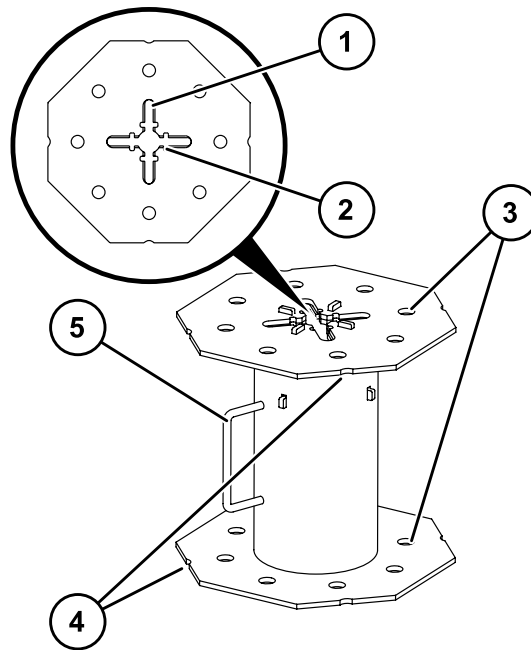
The starter platform is made up of Joists, Nodes, the deck and materials used to attach the components. The quantities of the various components are a factor of the size of the starter platform and the number of bays required. A bay consists of four Nodes and four Joists connected to one another. To assemble a typical starter platform with a grid of 3 x 3 Nodes, the following components are needed for example:

| Part code      | Description                             | Quantity  |
|----------------|-----------------------------------------|-----------|
| QDJ8           | Joist                                   | 12        |
| QDN            | Node                                    | 9         |
| QDNP           | Node Pin                                | 24        |
| QDDS           | Deck Support                            | 4         |
| QDP4X8         | Plyform Deck (1.2 m x 2.4 m)            | 8         |
| QDRH8C         | Retainer                                | 8         |
| 99-A0508470344 | Head Set screw                          | 32        |
| 99-E0462       | Hitch Pin, 19 mm (only during assembly) | 24        |
| —              | Boards (dunnage)                        | As needed |

There are eight different points at which the Joist can be attached to a Node. At each of the positions there are apertures (3) for the Node Pin used to connect Joists and Nodes to one another. Inserting the Hitch Pin through the hole in the node and into the anti-rotation groove (4) secures the Joist during assembly.

There are four recesses (1) on the top of the Node to accommodate one or more chains. There is a small perpendicular recess (2) in each chain recess. The suspension chain is secured here with the Chain Retainer QDCR.

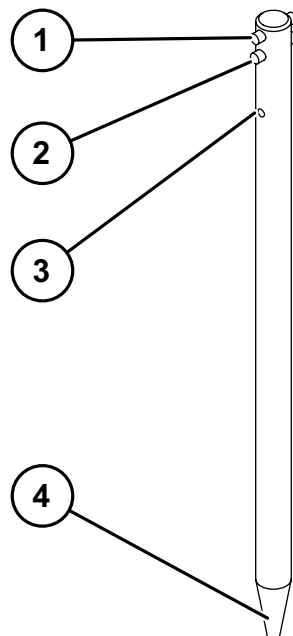
The grip (5) on the Node makes it easier to handle during assembly, modification and removal of the Node. The grip on the Node is intended only to facilitate handling. It should not be used as an attachment point for personal fall protection.



The Node Pin QDNP fastens the Joist to the Node. It is also where Railings and Railing Posts are attached. The upper spring pin (1) makes it easy to remove the Joist. The lower spring pin (2) serves as the limit stop when inserting the Joist into the Node.

The cross hole (3) accommodates a Hitch Pin 99-E0211 to secure the Node Pin.

The pointed end (4) makes assembly easier.



The following tools are needed to assemble the starter platform.

- Spanner
- Cordless screwdriver
- Square bit adapter
- Hammer
- Sledgehammer
- Tool Hoist (QDTHL, 1.5 t (1.5 kN), 1.50 m lifting height)
- Pin Extractor - Pin Puller (QDTE)
- Ratchet, 9.5 mm ( $\frac{3}{8}$ " )
- Socket, 12.7 mm ( $\frac{1}{2}$ " ) deep x 9.5 mm ( $\frac{3}{8}$ " ) drive
- Socket, 19.05 mm ( $\frac{3}{4}$ " ) deep x 9.5 mm ( $\frac{3}{8}$ " ) drive
- Socket, 15.88 mm ( $\frac{5}{8}$ " ) deep x 9.5 mm ( $\frac{3}{8}$ " ) drive
- Socket, 14.29 mm ( $\frac{9}{16}$ " ) deep x 9.5 mm ( $\frac{3}{8}$ " ) drive
- Torque wrench, 9.5 mm ( $\frac{3}{8}$ " )
- Wire rope cutter
- Combination wrench, 14.29 mm ( $\frac{9}{16}$ " )

The following materials are also needed:

- Barrier tape
- Adhesive tape
- Hitch Pin (99-E0462, 19.05 mm ( $\frac{3}{4}$ " ) x 152.40 mm (6" ) long)



## WARNING

### Risk of serious and fatal injury from falling objects!

Components that are not properly secured or material stored on Quikdeck may fall off and cause serious injury.

- Secure all components properly and as described in this user guide.
- Store materials only in areas of Quikdeck intended for this purpose.
- Properly secure material stored on Quikdeck.
- Verify that no innocent bystanders are standing under Quikdeck.
- Ensure that all persons standing on and under Quikdeck are wearing hard hats.

Instructions indicating where material can safely be stored on Quikdeck can be found beginning on page 35.

### 8.3.1 Sliding Node onto Joist

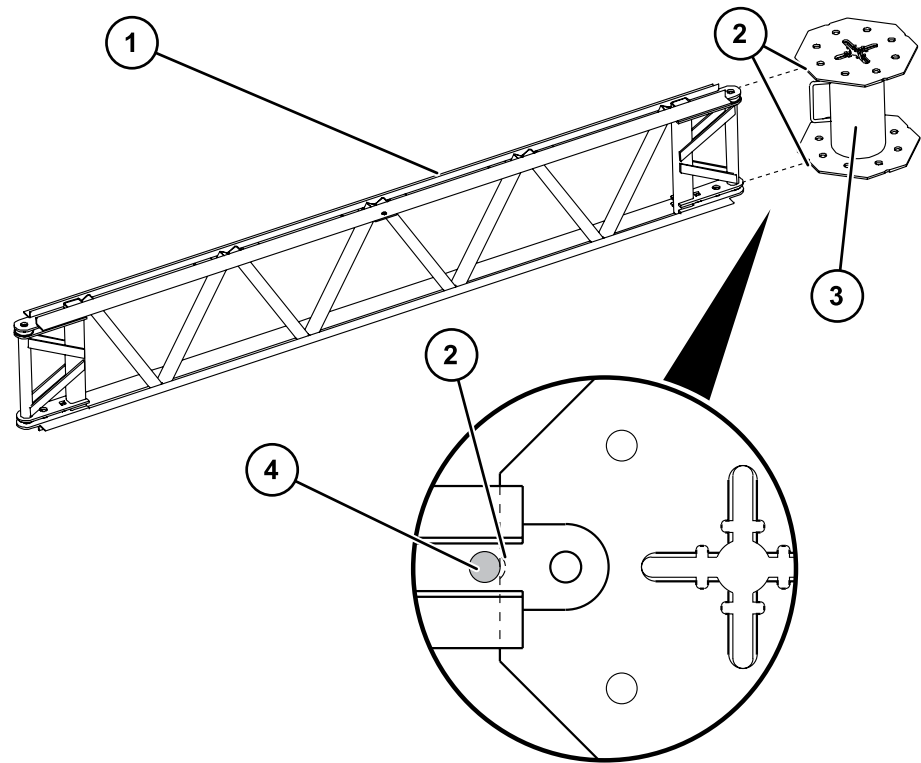
To prevent excessive drifting of the platform during hoisting, assemble starter platforms directly below their final attachment points.

## TIP

Proper cribbing (e.g. boards or timber beams) under Nodes or Joists is required to ensure full insertion of Node Pins through the Joist and Node.

- Step 1** Slide the Node (3) into the end of the first Joist (1).

- Step 2** Align the Node and Joist such that the anti-rotation pin location (4) on the Joist lines up with the anti-rotation groove.

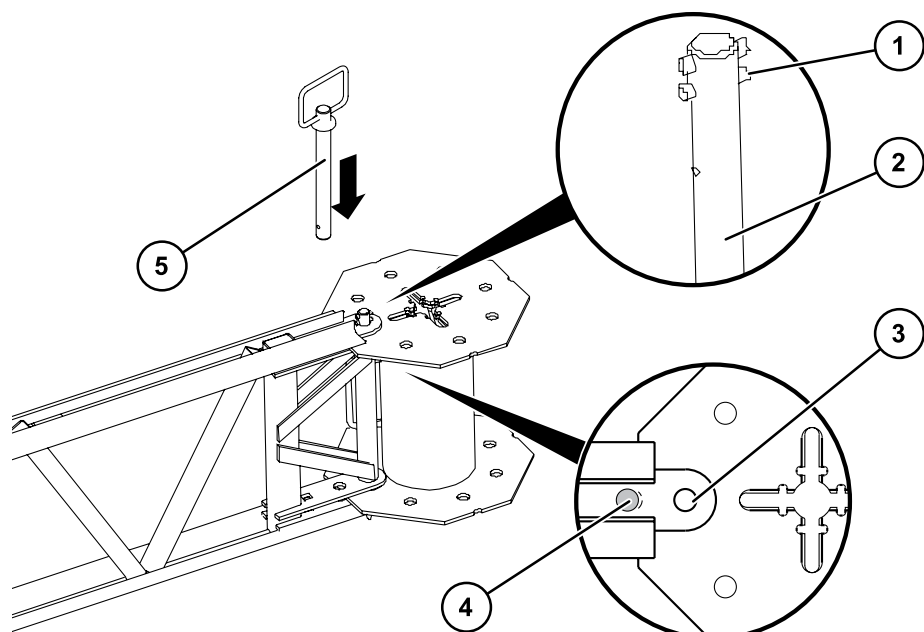


### 8.3.2 Connecting Joist to Node

- Step 1** Push the Node Pin (2) through the Connection Tube (3) in the Joist and through the hole in the Node until the lower spring pin (1) acts as a limit stop.
- Step 2** Insert the Hitch Pin (5) into the anti-rotation pin location (4) in the Joist.

#### TIP

The anti-rotation pin location is not needed for pre-assembly on the ground.

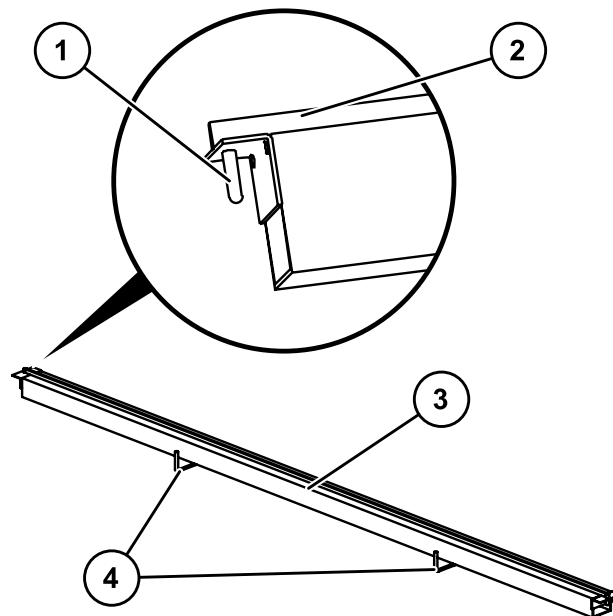


- Step 3** Secure the second Node at the other end of the Joist in the same way.

- Step 4** Attach two additional Joists to the two Nodes.
- Step 5** Align the Joists at a right angle to one another.
- Step 6** Attach two Nodes to the ends of the two Joists.
- Step 7** Place a fourth Joist between these two Nodes.
- Step 8** Verify that all of the lower spring pins rest securely on the Node.  
The first platform grid is complete. The deck can be attached now.

## 8.3.3 Installing Deck Support

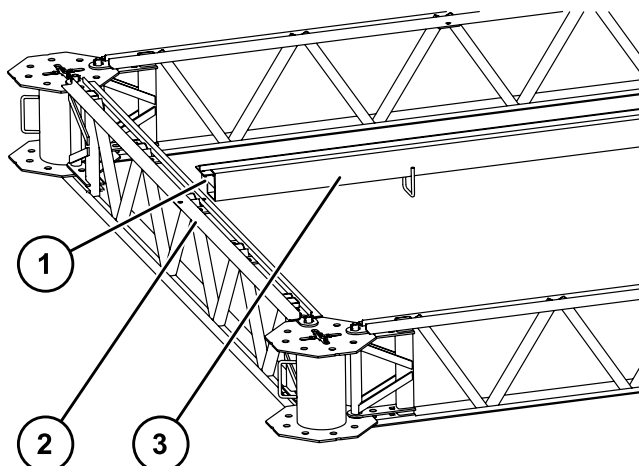
Deck Supports (3) divide the grids 2400 mm x 2400 mm, constructed with the Joists, into two bays of 1200 mm x 2400 mm each. These bays support the decks (1200 mm x 2400 mm). Grips (4) on the Deck Supports make it easier to handle the the Deck Supports during assembly, modification and removal. The guide rail (2) guides and secures the Plyform Decks during assembly. The Pins (1) connect the Deck Supports to the Joists.



### TIP

The Deck Support Hanger (QDDSH) is intended to be used with the QD Deck Support Hanger Lumber 4' (QDDSHL4), not with the Deck Support without Pins (QDDSWOP).

- Step 1** Insert the Pins (1) on each end of the Deck Support (3) into the holes on the two Joists (2) of the grid.



### 8.3.4 Installing Deck

The Plyform Decks are 1.20 m x 2.40 m in size and 18 mm thick.



#### **DANGER**

#### **Risk of fatal injury due to use of damaged Plyform Decks!**

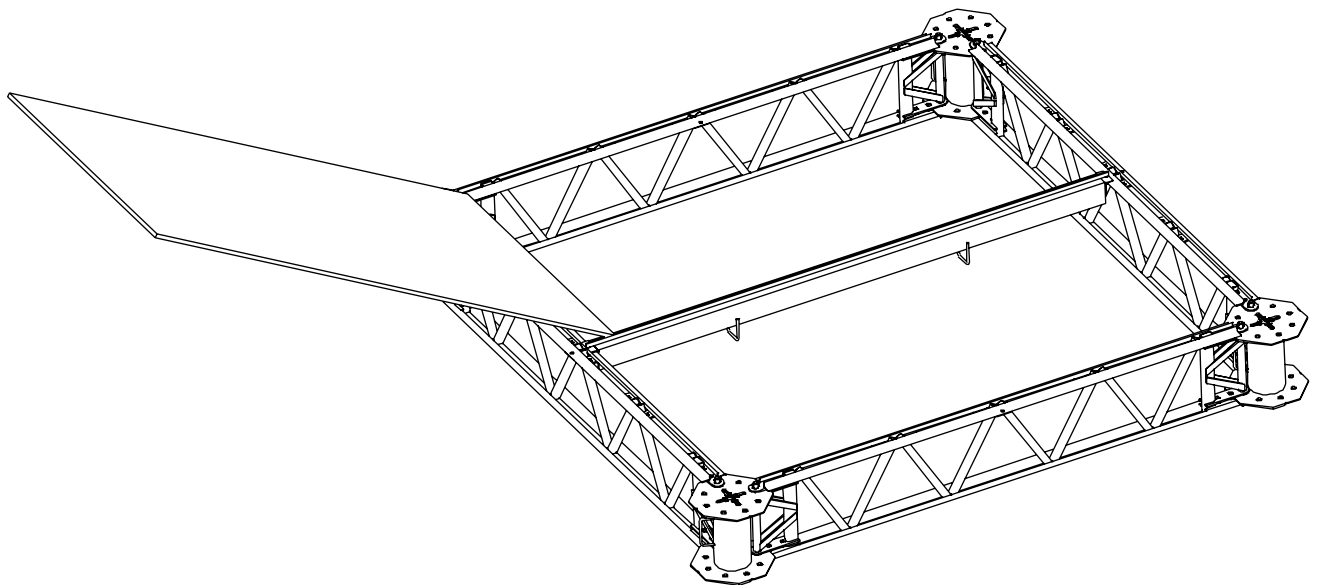
Damaged deck elements have a diminished load rating.

- Check that the Plyform Decks are serviceable before using them.
- Immediately repair damaged deck elements or replace them with new ones of the same type.

Once the Plyform Decks are in place, the deck braces the grid. Then the Hitch Pins are no longer needed.

#### **Step 1**

Place the first Plyform Deck on the platform such that it rests on the joist guide rail and the Deck Support.



#### **Step 2**

Install the second Plyform Deck in the same way.

#### **Step 3**

Remove all of the Hitch Pins from the Joists.

#### **Step 4**

Store the Hitch Pins in a safe place.

#### **Step 5**

Assemble the remaining grids of the starter platform in the same way.

### 8.3.5 Installing Deck Retainers

The Deck Retainer is screwed to the Joists on the inside of the starter platform. It prevents the Plyform Decks from liftoff. The Deck Retainer also holds the bay at a right angle and increases the shear strength of the platform.

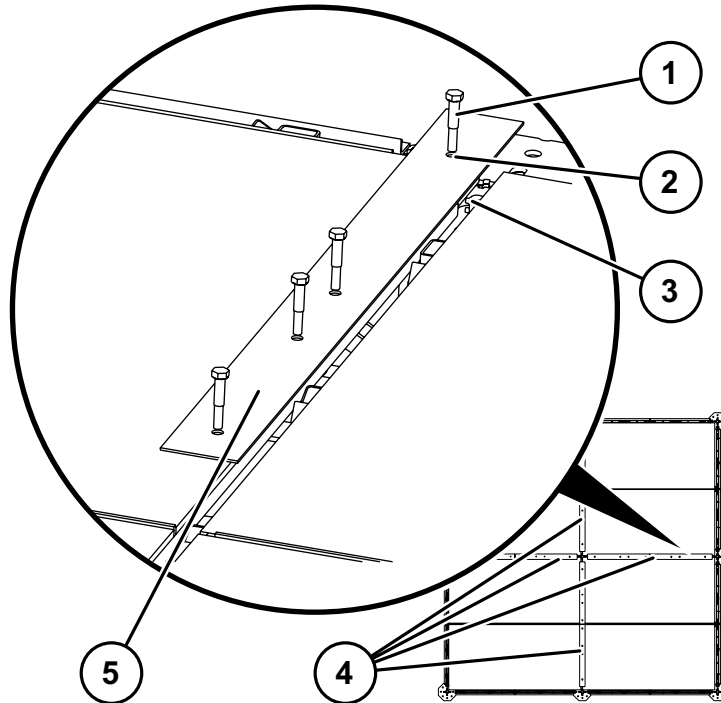
#### **TIP**

Deck Retainers are designed to be used with all Joists, with the exception of Joists 1/6 (QDJ16) and Cut-to-fit Joist Tubes (CDJCT). Deck Retainers are not used with these types of Joists.

Align the holes (2) in the Deck Retainers with the Cage Nuts (3) in the Joists (4) and screw the Deck Retainers into place. The mounting holes make it easier to screw the Deck Retainers onto the Plyform Decks.

If the platform requires a smooth surface, use Countersunk Screws 99-A0508470345 to attach the Deck Retainers. If the platform does not require a smooth surface, Hex Flange Bolts 99-A0508470344 can be used to attach the Deck Retainers. These also have to be used in cases where dirt or debris could clog the heads of the Countersunk Screws.

- Step 1** Place the Deck Retainer (5) on the Joist such that the holes (2) are directly above the Cage Nuts (3).
- Step 2** Insert the screws (1) into the holes and screw them into the Cage Nuts to a torque of 20 Nm.



- Step 3** Repeat steps 1 to 2 for the second Deck Retainer.
- Step 4** Repeat steps 1 to 3 on all interior Joists.

## 8.3.6 Completing starter platform

- Step 1** Assemble the remaining grids of the starter platform in the same way.

## 8.4 Hoisting starter platform

Power Climber hoists can be used to lift the starter platform. The hoists are connected to the starter platform with hoisting chains.

Additional components are required for the hoist, e.g. the adapter QDHAXE. Always follow the directions in the operating instructions for the hoist used. Additional information can be obtained from the hoist manufacturer.

The QDCFT chain can be used as a hoisting chain and it has a weight of 2.3 kg per meter.

Before work begins, a qualified person has to determine the number and type of hoist attachment points and the type of hoist.

The following points must be checked:

- Specifications in the assembly instructions
- Information from the risk assessment
- Static calculations for the respective case
- Loads (persons, material) anticipated to be placed on the starter platform

The hoisting chains are attached to the load-bearing element. Depending on the circumstances on site, the hoisting chains have to be attached either to the Nodes or to other hoist attachment points on the starter platform.

## TIP

Notes on how to use other hoist attachment points can be found beginning on page 98.



## DANGER

### Risk of fatal injury if Quikdeck is assembled incorrectly!

Incorrect assembly of components can lead to a risk of falling due to component failure.

- Install all components only as described in this user guide.
- All lifting and hoisting equipment must comply with all the relevant regulations and standards and must be able to take all of the required loads.
- Ensure that the load rating of the components is not exceeded.
- When assembling the equipment, observe and follow all legal regulations and other directives applicable at the place of use as well as the operator's assembly instructions.
- Ensure that only suitably qualified persons assemble the Quikdeck equipment.
- Have Quikdeck checked by a qualified person after assembly.



## DANGER

### Risk of fatal injury due to the starter platform falling or collapsing!

The starter platform can collapse or tip over if the safe working load is insufficient or the hoisting chains are not attached properly.

- Use hoists that have a lifting capacity high enough to hoist the starter platform and any loads on the platform.
- Have a qualified person check that the hoisting chains are attached properly before hoisting.
- Verify that all persons on the starter platform are properly equipped with personal fall protection during hoisting.
- Secure the area underneath and around the platform to prevent unauthorised access.
- Ensure that the hoisting chains are not twisted.

The assembler/user must regularly monitor all live loads imposed on the platform and correct as required. This is essential to ensure that the maximum loading and hoisting capacities are not exceeded.

Hoist operators are responsible for checking the location of the platform. They must ensure that there is sufficient clearance between the platform and the structure to avoid collisions. The stated dimensions are the maximum outer dimensions, including the railing posts.

Before hoisting, ensure that the hoisting chains are straight and not twisted.

## 8.4.1 Attaching hoisting chains to starter platform

The Chain QDCFT can be used to hoist the starter platform. The chain is available in several lengths.

### Preparing to install

- Step 1** Ensure that the chain has proper edge protection as required by the regulations applicable on site.
- Step 2** Verify that the starter platform is placed directly below the final hoisting position and is aligned as it should be.
- Step 3** Designate suitable hoist attachment points or Nodes as indicated by the specifications beginning on page 71.
- Step 4** Select the proper chain slot.

## Connecting hoisting chain to Node

The hoisting chain has to be inserted into the chain slot (3) such that the chain is forced towards the outside when hoisting begins.

**Step 1** Place the chain of the Rigging Chain Assembly (1) in the chain slot.

### TIP

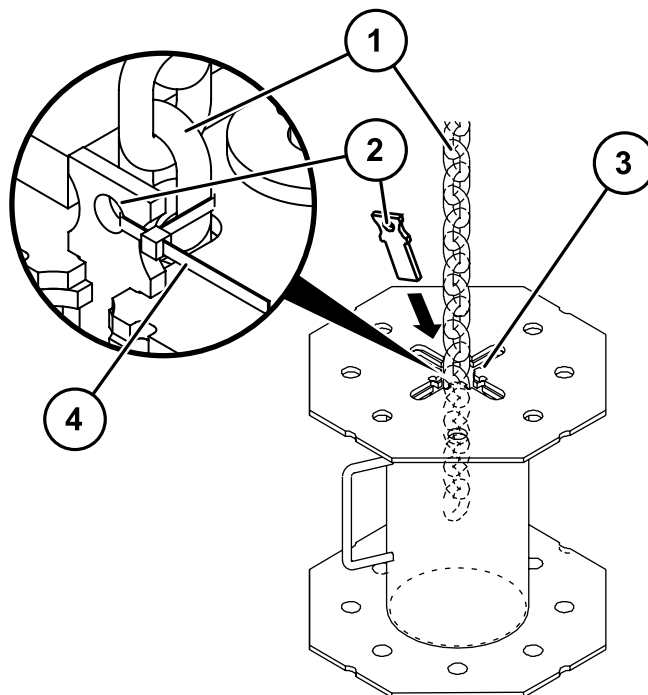
Select one of the four chains slots in the node top plate such that, during hoisting, the angle of the chain of the Rigging Chain Assembly will force the chain into the chain slot and not against the Chain Retainer (2).

**Step 2** Slide the chain into the chain slot.

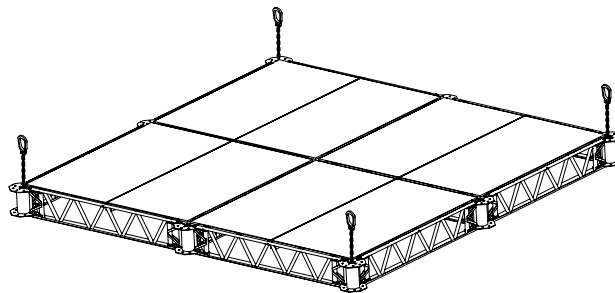
**Step 3** Check that the hoisting chain is not twisted.

**Step 4** Place the Chain Retainer in the chain slot, next to the hoisting chain.

**Step 5** Fasten the Chain Retainer to the hoisting chain with a Wire Tie (4).



**Step 6** Proceed in the same way to secure the Rigging Chain Assemblies to the other Nodes or Hoist Attachment Points. The Rigging Chain Assemblies will be then used for hoisting.



## 8.4.2 Connecting hoisting chain to Hoist

**Step 1** Select suitable hoisting equipment on the basis of the planning principles beginning on page 73.

**Step 2** Connect the hoist to the Rigging Chain Assemblies as described in the hoist operating instructions.

### 8.4.3 Hoisting starter platform



#### DANGER

#### Risk of serious and fatal injury from falling objects!

Components that are not properly secured or material stored on the starter platform may fall off and cause serious injury if the starter platform tilts.

- Secure all components properly and as described in this user guide.
- Ensure that all mounting parts are securely attached.
- Stage material only in suitable places on the starter platform and secure it properly.
- Make sure that the load rating of the starter platform is not exceeded.
- When lifting the platform, lift it evenly to prevent tilting.
- Verify that no innocent bystanders are standing under the starter platform.
- Ensure that all persons standing on and under the starter platform are wearing hard hats.

Instructions indicating where material can safely be stored on the starter platform can be found beginning on page 35

**Step 1** Check that the hoisting chains are straight and not twisted.

**Step 2** Operate the hoists as described in the corresponding operating instructions to evenly raise the starter platform.

Once the starter platform is in the planned position, the permanent suspenders can be attached as described in this section.

### 8.5 Suspending starter platform

Once the starter platform has been hoisted to the final position, it has to be secured to the load-bearing structure with the permanent suspenders. The suspenders are made up of the suspension chains, retaining devices and Chain Coupler Assemblies. Attachment points can be created e.g. with the methods described in the section "Attaching to the load-bearing structure" beginning on page 61.

The type of anchors, the number of suspenders and the type and number of hoist attachment points are a factor of the load-bearing structure and of the calculated load. Attach the suspension chains as described in the standard layouts section of this user guide.

#### TIP

Notes on how to use other hoist attachment points can be found beginning on page 98.

The following section explains and shows how to use Beam Clamps to suspend steel Joists. Other mean of suspending the platform from load-bearing structures are described beginning on page 61. How to use the various fasteners is described beginning on page 98. Example: The following components are needed to suspend a typical starter platform 4.90 m x 4.90 m using a suspender configuration 2.40 m x 2.40 m (3.6 kN/m<sup>2</sup>):

- 9no. suspension chains QDC of the required length

- 9no. Chain Coupler Assemblies QDCC
- 9no. Beam Clamp Assemblies (each one consisting of two Beam Clamps, Beam Clamp Tubes, Chain Retainers and Wire Ties)
- 18no. Suspender Pins 99-A0308470018
- 18no. Suspender Pins 99-A910550368
- 18no. Lynch Pins 99-E0316
- 1no. Tool Hoist with Load Limiter, 1.5 t (13.3 kN) lifting capacity

## 8.5.1 Attaching suspension chains

The suspenders can be connected vertically above the attachment points or at an angle. The following section describes vertical suspension.

When suspenders are attached at an angle, observe the following:

- The suspension chain should be inserted into a chain slot such that load suspended by the suspension chain forces the suspension chain towards the outside of the slot when hoisting begins.
- The load may not cause the suspension chain to be drawn out of the chain slot.
- The suspension chain may not apply lateral load to the Chain Retainer.



### DANGER

#### **Risk of fatal injury due to Quikdeck collapsing if Chain Coupler Assemblies are overloaded!**

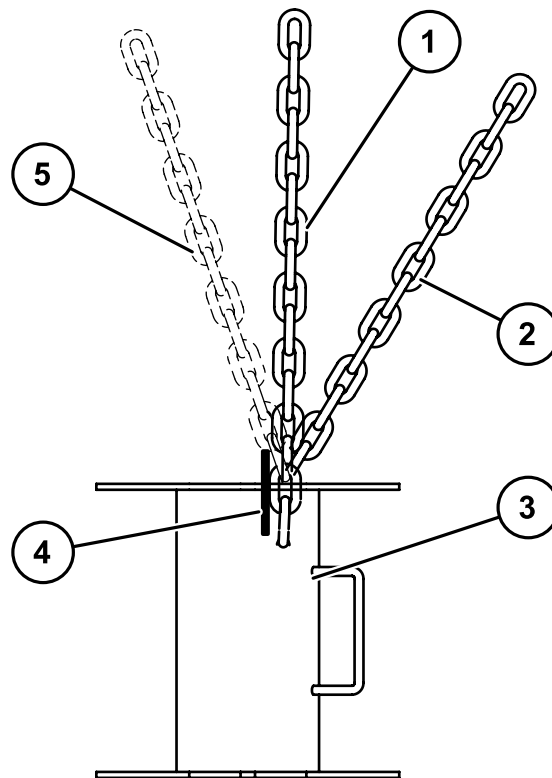
The Chain Retainer is not designed to accommodate the lateral load resulting from an angled suspender. If this occurs, the platform can become detached and fall.

- Install all components only as described in this user guide.
- Verify that the suspension chain is in the correct chain slot.
- Ensure that the suspension chain is not twisted.
- Ensure that the Chain Retainer is not subjected to lateral loads.

When the suspension chain twists, it becomes shorter and can accommodate less load. If the hoisting chain is twisted, the starter platform is not level as it is raised.

The following illustration shows where the suspension chains may be attached to the Node (3). For the permitted angles see information starting on page 41.

The suspension chain may not be attached at the angle indicated by (5). This would subject the Chain Retainer (4) to lateral load.



- Step 1** Ensure that the suspension chain is properly padded as required by the regulations applicable on site.
- Step 2** Verify that the starter platform is placed precisely in the final position.



## DANGER

### Risk of fatal injury due to incorrect placement of suspenders!

If suspenders are not positioned correctly, the result can be a lower load rating.

- Suspend the platform only from Nodes that are protected from twisting.

Nodes are protected from twisting if they are connected to at least three Joists or are attached to the corners of the platform.

The suspension chain has to be inserted into the chain slot (3) such that the suspension chain is forced towards the outside.

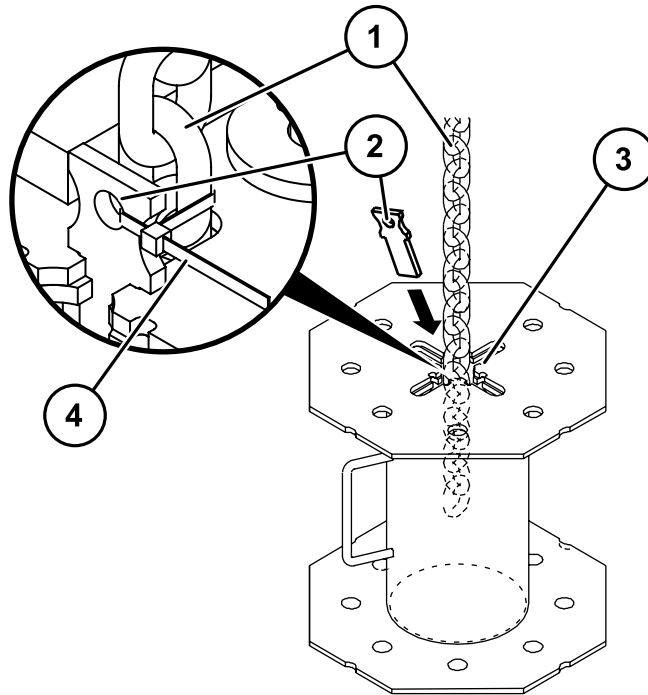
- Step 3** Place the chain (1) in the chain slot.

## TIP

Select one of the four chains slots in the node top plate such that the angle of the chain will force the chain into the chain slot and not against the Chain Retainer (2).

- Step 4** Slide the chain into the chain slot.
- Step 5** Check that the chain is not twisted.
- Step 6** Place the Chain Retainer in the chain slot, next to the chain.

**Step 7** Fasten the Chain Retainer to the chain with a Wire Tie (4).



**Step 8** Attach the remaining suspension chains to the other Nodes or hoist attachment points in the same way.

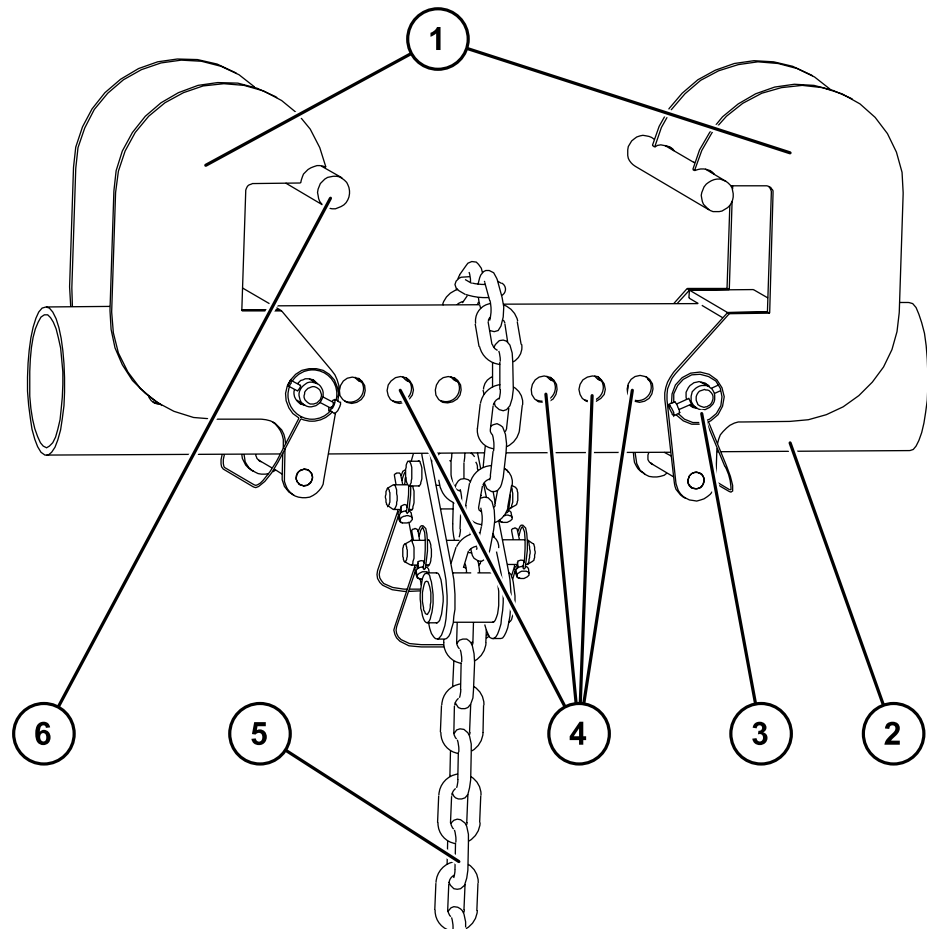
## 8.5.2 Attaching Beam Clamps

The Beam Clamp Assembly is used to suspend Quikdeck from load-bearing components. The Beam Clamp Jaw is attached to the Beam Clamp Tube with very sturdy bolts. Beam Clamp Jaws can be attached to different places along the Beam Clamp Tube. This allows Quikdeck to be suspended from components of different sizes.

### TIP

Unless explicitly stated otherwise by HÜNNEBECK, the Beam Clamp Jaws (QDBCJ10) may be used only with Beam Clamp Tubes (QDBCT33). Standard-sized Beam Clamp Jaws can be used for connections to flanges up to 50.8 mm thick. Beam Clamp Jaws for other flange thicknesses are available upon request. More information can be obtained from HÜNNEBECK.

A Beam Clamp is made up of two Beam Clamp Jaws (1) attached to a Beam Clamp Tube (2). There are several holes (4) in the Beam Clamp Tube where Suspender Pins (3) can be inserted, allowing the Beam Clamp to be adapted to the respective load-bearing element. A rod (6) attached to the Beam Clamp absorbs the load and distributes it to the load-bearing elements. The suspension chain (5) from which the platform is suspended is attached to the Beam Clamp Tube.



### Preparing to install

The following parts are needed to attach the Beam Clamp Assembly:

- Beam Clamp Assembly with two Beam Clamp Jaws (QDBCJ)
- Beam Clamp Tube (QDBCT), proper size
- 2no. Suspender Pin 6 1/2" (99-A0308470018) or 2no. Suspender Pin 8" (99-A0404470165 for QDBCJ10).
- 2no. Lynch Pin with 16" Lanyard (99-E0322)

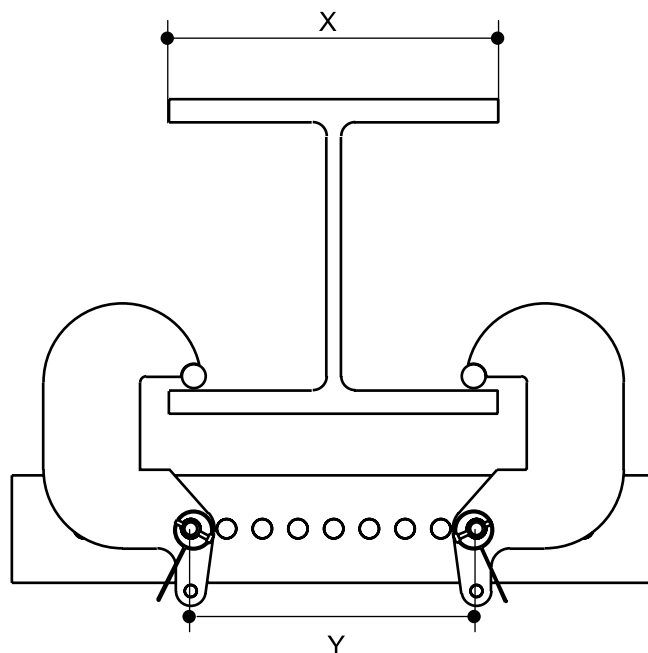
The required Beam Clamp width (Y) is the width of the beam (X) plus the required overhang of the Beam Clamp. The required overhang is a factor of the conditions on site. Both Beam Clamp Jaws have to be as close as possible to the load-bearing element.

The Beam Clamp Tubes (QDBCT) are available in these sizes:

| Part code | Length [mm] | Weight [kg] |
|-----------|-------------|-------------|
| QDBCT4    | 228         | 3.60        |
| QDBCT12   | 381         | 6.80        |
| QDBCT24   | 686         | 10.90       |
| QDBCT33   | 914         | 19.50       |

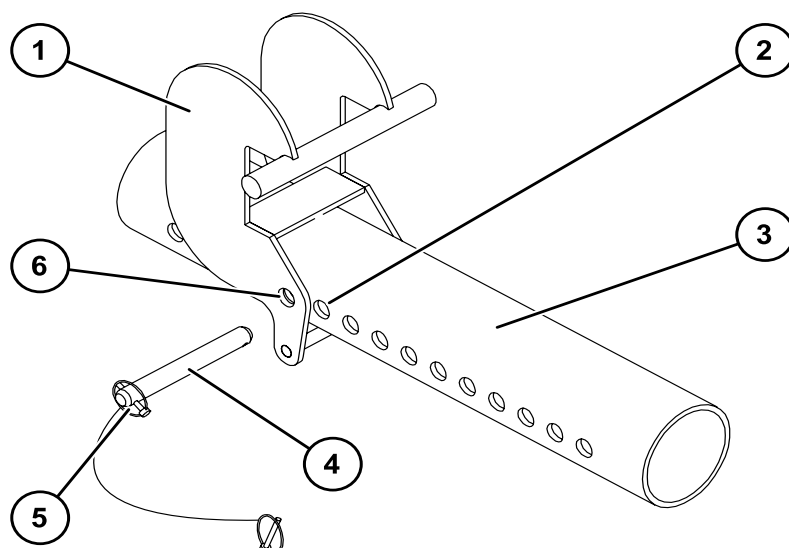
- Step 1** Select suitable attachment points on the load-bearing structure according to the load calculations in the assembly instructions.
- Step 2** Measure the beam width X.

- Step 3** Select the proper Beam Clamp Tube for the determined width Y.



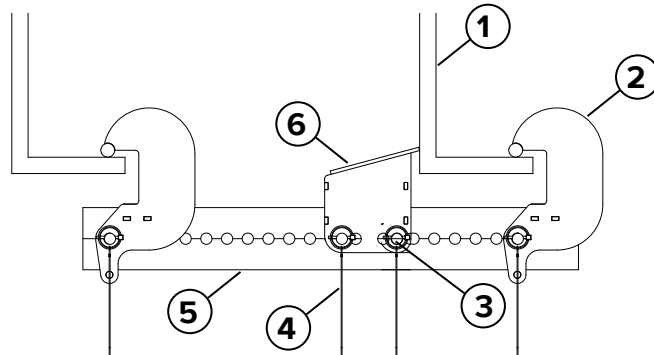
## Attaching Beam Clamp to Beam Clamp Tube

- Step 1** Centre the Beam Clamp Tube under the load-bearing structure.
- Step 2** Slide the Beam Clamp Jaw (1) onto the Beam Clamp Tube (3).
- Step 3** Align the holes in the Beam Clamp Tube (2) and the Beam Clamp Jaw (6).
- Step 4** Slide the Suspender Pin (4) through the holes.
- Step 5** Secure both ends of the Suspender Pin with Lynch Pins (5).



### Attaching the Beam Clamp with the Beam Clamp Jaw Retainer

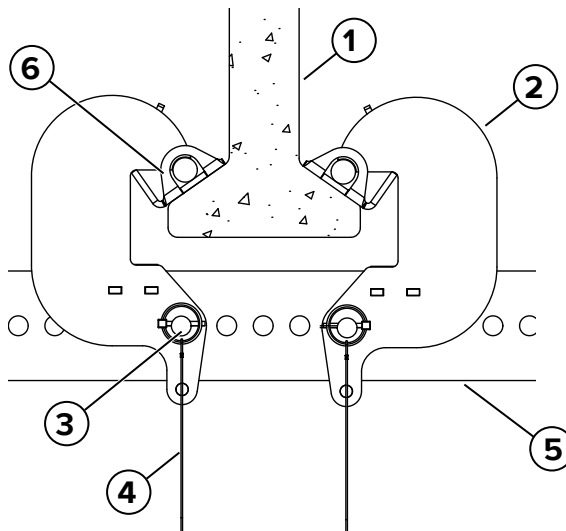
If required, the Beam Clamp Jaw Retainer is used to prevent the Beam Clamp assembly from unintentional dislodgement. It is typically used in C section steelwork where two opposite Beam Clamps cannot be used.



| Item | Part Code      | Description                |
|------|----------------|----------------------------|
| 1    | ---            | Steelwork                  |
| 2    | QDBCJ2         | QD Beam Clamp Jaw 2"       |
| 3    | 99-A0404470165 | QD Suspenders              |
| 4    | 99-E0322       | QD Lynch Pin 16" Lanyard   |
| 5    | ---            | QD Beam Clamp Tube         |
| 6    | QDBCJR         | QD Beam Clamp Jaw Retainer |

### Attaching the Beam Clamp with the Bearing Plate Deep Jaw BC

When suspending from pre-cast concrete beams the QD Bearing Plate Deep Jaw can be used to protect the structure.



| Item | Part Code      | Description                  |
|------|----------------|------------------------------|
| 1    | ---            | Concrete beam                |
| 2    | QDBCJ2         | QD Beam Clamp Jaw 2"         |
| 3    | 99-A0404470165 | QD Suspenders                |
| 4    | 99-E0322       | QD Lynch Pin 16" Lanyard     |
| 5    | ---            | QD Beam Clamp Tube           |
| 6    | QDBCJBP        | QD Bearing Plate Deep Jaw BC |

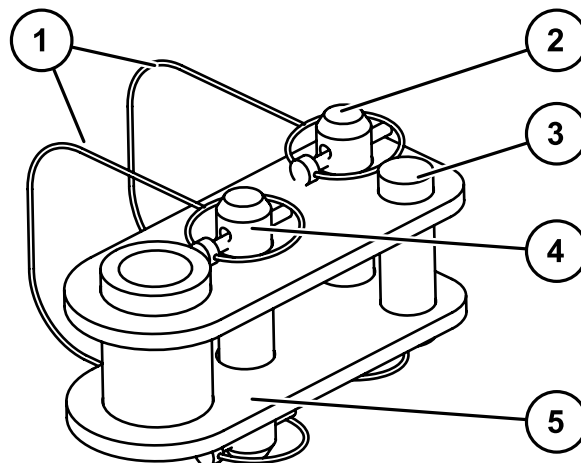
## Attaching second Beam Clamp to Beam Clamp Tube

Attach the second Beam Clamp to the Beam Clamp Tube in the same way as the first one.

- Step 1** Slide the second Beam Clamp Jaw onto the Beam Clamp Tube until it rests against the load-bearing structure.
- Step 2** Align the holes in the Beam Clamp Jaw and the Beam Clamp Tube.
- Step 3** Slide the Suspender Pin through the holes.
- Step 4** Secure both ends of the Suspender Pin with Lynch Pins.
- Step 5** Secure the other three Beam Clamps to the load-bearing structure in the same way.
- Step 6** Have a qualified person check all of the components of the starter platform to verify that they are in serviceable condition.

### 8.5.3 Securing suspension chain to Beam Clamps

The Chain Retainer (2) and the fixed pin (3) connect the suspension chain to the Chain Coupler Assembly QDDC (5). The Lynch Pin with 16" Lanyard (1) secures the Chain Retainers. The Rigging Angle Control Pin (4) limits the angle of the choker configuration around load-bearing elements to less than 120°.



#### TIP

A Rigging Angle Control Pin and edge protection are not needed when connecting to the cross pipe of a Beam Clamp Tube.

The effective chain length can be adjusted by repositioning the Chain Coupler Assembly.



#### DANGER

#### Risk of fatal injury due to Quikdeck collapsing if the suspension chain is damaged!

If the suspension chain is damaged by sharp edges, the platform can come loose and fall.

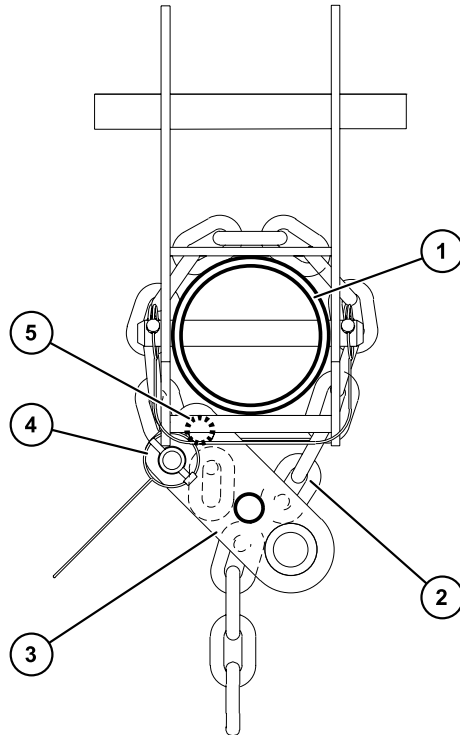
- Install all components only as described in this user guide.
- Place proper edge protection along sharp edges to protect the chain.

Proceed as follows to connect the suspension chain to the Beam Clamp:

#### Threading suspension chain over Beam Clamp Tube

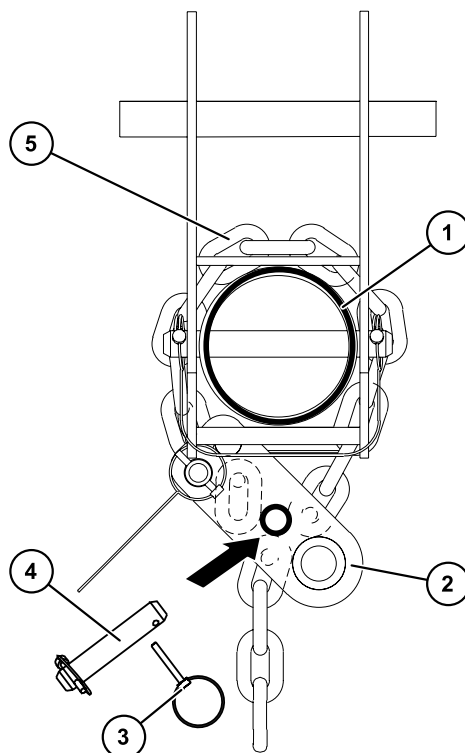
- Step 1** Select a suspension chain of the required length.
- Step 2** Pass the suspension chain (2) through the Chain Coupler Assembly (3) and over the Beam Clamp Tube (1).
- Step 3** Wrap the suspension chain lengthwise around the fixed pin on the Chain Coupler Assembly.
- Step 4** Insert the Chain Retainer (5) into the Chain Coupler Assembly.

**Step 5** Use a quick-release axle (4) to secure both ends of the Chain Retainer.



#### **Attaching suspension chain to Chain Coupler Assembly**

- Step 1** Align the Chain Coupler Assembly (2) perpendicular to the Beam Clamp Tube (1).
- Step 2** Pull the suspension chain (5) tight to create a choker configuration around the Beam Clamp Tube.
- Step 3** Check that the suspension chain is not twisted.
- Step 4** If required, insert the Rigging Angle Control Pin (4) to set the angle into the Chain Coupler Assembly as shown.
- Step 5** Secure both sides of the Control Pin with the Lynch Pin (3).



## Completing suspension

- Step 1** Attach the remaining suspension chains in the same way.
- Step 2** Have a qualified person check all of the components of the starter platform and the suspenders to verify that they are in serviceable condition.
- Step 3** Lower the hoists as described in the separate operating instructions for the hoist. The load of the starter platform is then transferred to the suspenders.
- Step 4** Check that the suspenders are secure and that all elements of the starter platform are in serviceable condition.
- Step 5** Reverse the steps from the attachment procedure to remove the hoisting chains.

### 8.5.4 Levelling starter platform

Before expanding the starter platform to create the final work platform, the starter platform has to be level and flat.



#### **DANGER**

#### **Risk of fatal injury due to Quikdeck collapsing if the Tool Hoist is overloaded!**

If the Tool Hoist is overloaded, parts of the platform can come loose and fall.

- Install all components only as described and shown in this user guide.
- Use a suitable lifting device, e.g. a Tool Hoist (QDTHL).
- Ensure that the Tool Hoist is operated properly.

The following guidelines are particularly important when using a Tool Hoist:

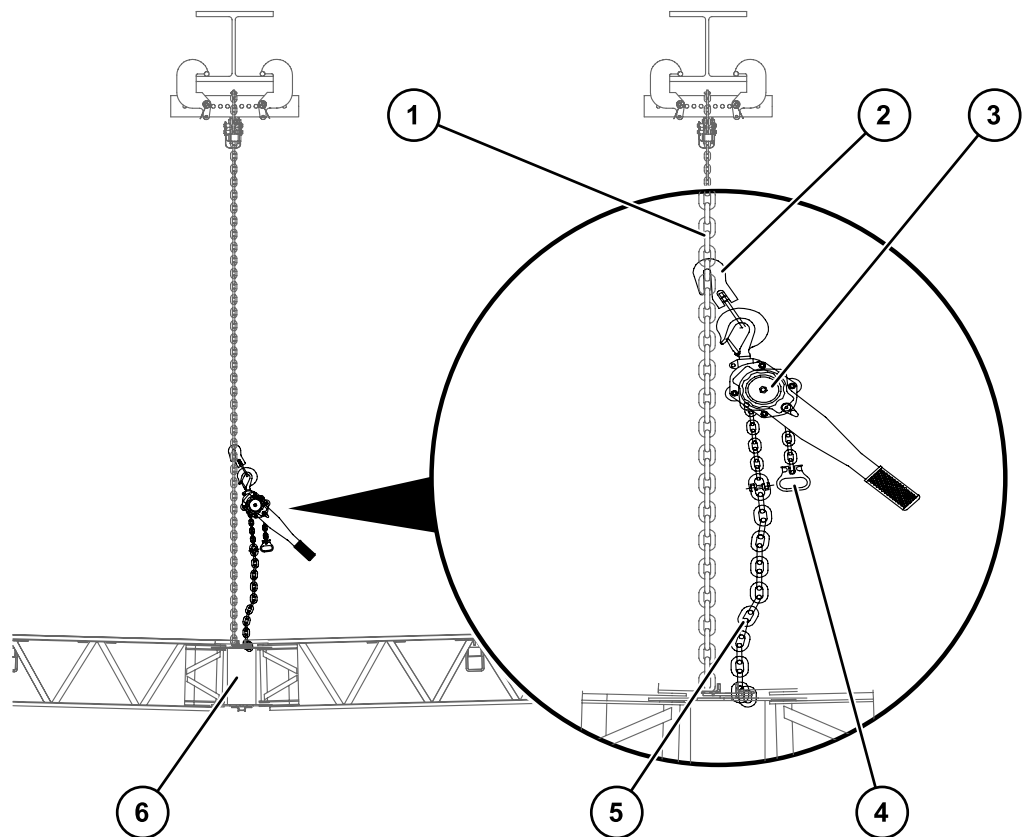
- The Tool Hoist may be used only by properly trained personnel.
- Never use the Tool Hoist as a permanent suspension component or to lift persons or materials.
- Never use the Tool Hoist in configurations where failure of the hoist may result in failure of the platform or its components.
- Verify that removal of the selected Tool Hoist will not cause the platform or its components to fail.
- Remove all loads near the suspender to be adjusted.
- Never overload the Tool Hoist.
- The suspender to be adjusted should never support loads greater than 1500 kg.

To raise a Node (6) that is hanging too low, proceed as follows:

#### **Attaching tool hoist chain**

- Step 1** Use the free chain knob (3) and the tool hoist chain tension handle (4) to release the tool hoist chain (5) as described in the Tool Hoist operating instructions.
- Step 2** Insert the tool hoist chain into the selected chain slot in the Node.
- Step 3** Secure it with a Chain Retainer.

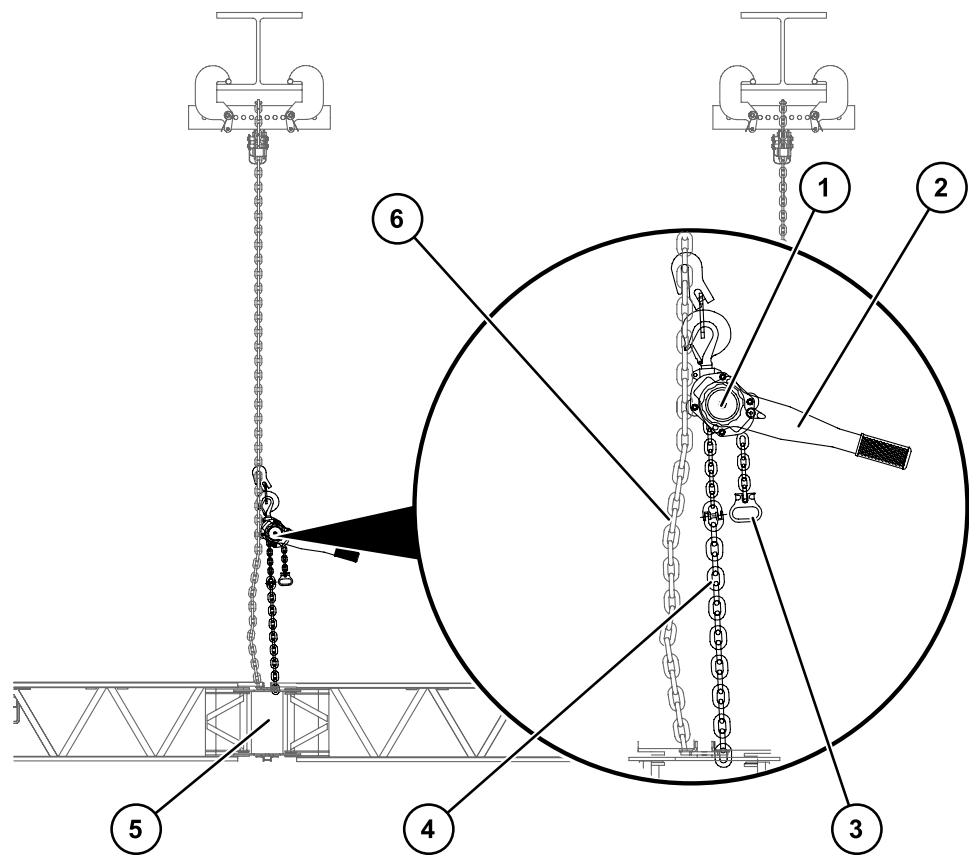
**Step 4** Secure the hook (2) to the suspension chain (1).



#### **Tensing tool hoist chain**

- Step 1** Use the free chain knob (1) and the load chain tension handle (3) to remove slack from the tool hoist chain (4).
- Step 2** Adjust the free chain knob to tense the tool hoist chain.
- Step 3** Lock the Tool Hoist (2).
- Step 4** Crank the load chain tension handle until the platform is adjusted and levelled. The load applied to the Node (5) is now temporarily transferred to the tool hoist chain.

The suspension chain is slack (6).



## Tightening suspension chain

- Step 1** Remove the Chain Retainer from the suspension chain.
- Step 2** Pull the suspension chain out of the chain slot.
- Step 3** Insert the suspension chain in the slot again such that there is no more slack; refer to the instructions beginning on page 73.
- Step 4** Attach the Chain Retainer to the suspension chain again.
- Step 5** Secure the Chain Retainer with Wire Ties.
- Step 6** Use the free chain knob and load chain tension handle to relieve tension to the tool hoist chain.  
This transfers the load back to the suspension chain.

## Removing Tool Hoist

- Step 1** Check that the Node is suspended securely.
- Step 2** Remove the Tool Hoist from the chain slot.
- Step 3** Detach the hook from the suspension chain.
- Step 4** Repeat levelling at other Nodes if necessary.  
The starter platform can now be expanded to create the final work platform.

## 8.6 Expanding starter platform

Once the starter platform is in the intended position and is securely suspended, it can be expanded to create the complete work platform.

Additional tools and materials such as a hoist or packaging and storage materials are needed to erect and assemble platforms. For the greatest degree of safety and efficiency, plan ahead to secure adequate unloading and staging areas as well as suitable material handling equipment.

If access, hoists and/or materials for the planned work are available, it may be possible to unload materials directly onto the platform.



### **DANGER**

#### **Risk of fatal injury in the event of falling from Quikdeck due to missing or incorrectly mounted fall protection!**

A guard rail or other fall protection attached to Quikdeck may exceed the load limits of Quikdeck.

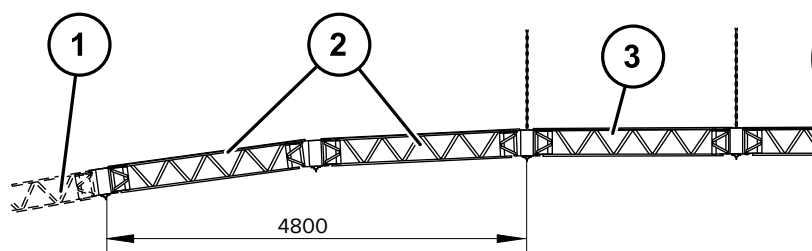
- Anyone entering an area of the Quikdeck system that is not properly secured with complete guard rails must use additional and separate fall protection to prevent falling from the platform.
- Attach the personal fall protection (harness) to structures that are independent of Quikdeck.

Two persons are required to expand the starter platform safely. Both persons should be at the outer edge of the platform in the area to be expanded, and they should be properly secured with personal fall protection equipment.

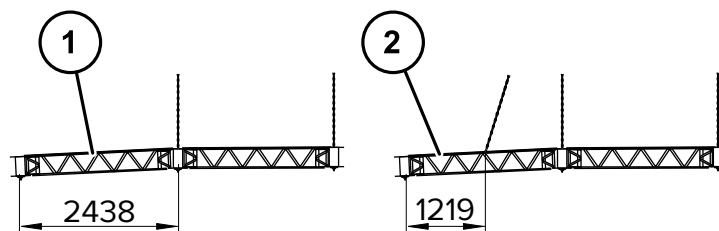
### 8.6.1 Permitted cantilevering of platform

When constructing the final work platform, it will be necessary to temporarily cantilever components as they are installed. Only one side of the added components (2) is attached to the part of the platform that is already completed (3). Cantilevered components can support loads.

During assembly, components can be cantilevered up to 4800 mm (2no. Joist 8') and can support loads up to 225 kg or two workers with tools. Additional components (1) may not be attached to cantilevered Joists.



While in use, components can be cantilevered, and below are some examples. Cantilevers are not contemplated in the standard layouts and should therefore be the subject of special calculation. Contact HÜNNEBECK for further information.



## TIP

When adding multiple rows of grids, it is best to complete one row at a time and then suspend the row from the load-bearing structure.

It is possible to cantilever two rows, but then no loads can be placed on the cantilevered structures. Until the grids are suspended properly, only assemblers may go onto the cantilevered grids.

Cantilevers cannot be used with Cut-to-Fit Joist Tubes. Both ends of Cut-to-Fit Joist Tubes have to be attached to the Nodes.

## 8.6.2 Installing additional elements

Grids are assembled and added to the starter platform in the same way that the starter platform is assembled. Single grids or a row of grids can be attached at the same time. The procedure is basically the same.

The following steps explain how to assemble and install a single grid.



## DANGER

**Risk of fatal injury due to single platforms or the entire Quikdeck collapsing if the load limits are exceeded!**

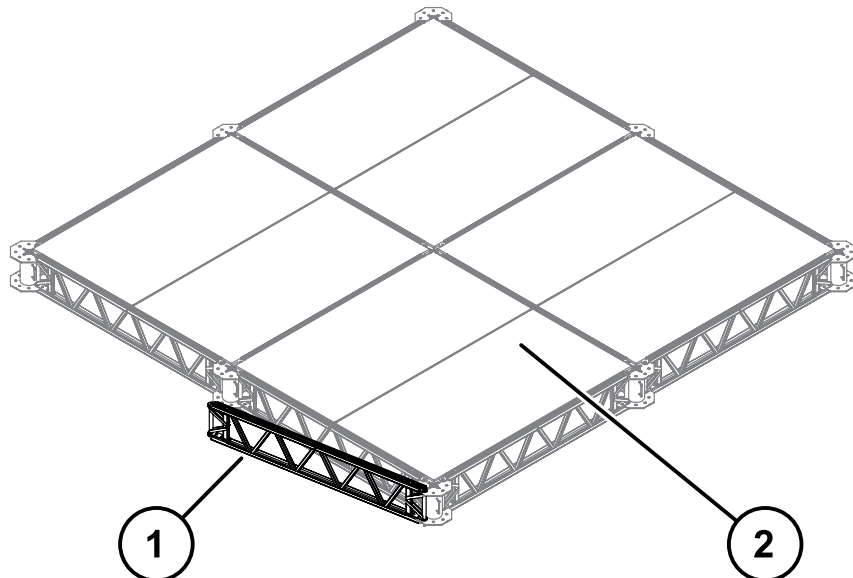
Components can come loose and fall off if Quikdeck is subjected to excessive load.

- Install all components only as described in this user guide.
- Ensure that the maximum cantilever distance is not exceeded.
- Ensure that the load rating of the cantilevered components is not exceeded.
- Use anchors, fasteners or counterweights to prevent the platform from tilting or overturning.

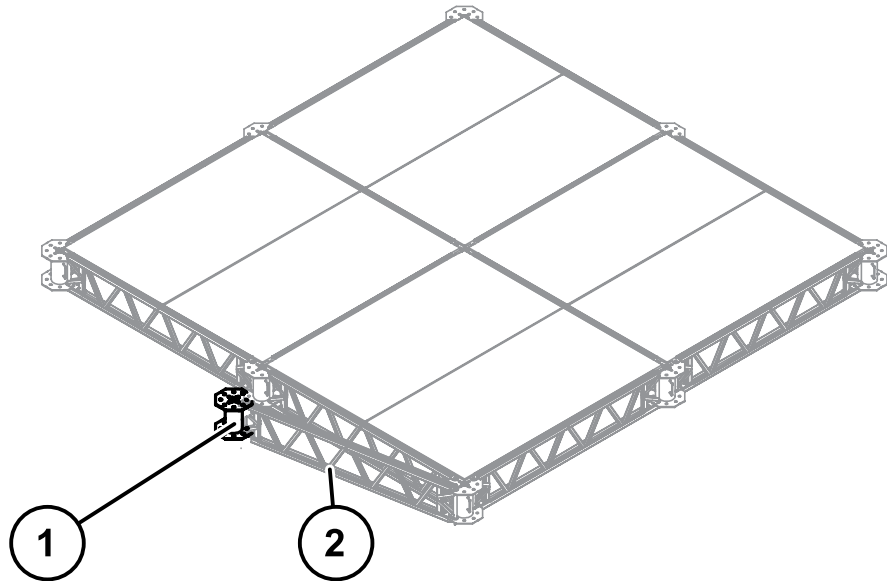
### Attaching first Joist and Node

**Step 1** Place the Joist (1) on the respective Node on the starter platform (2).

**Step 2** Secure the Joist with a Node Pin.



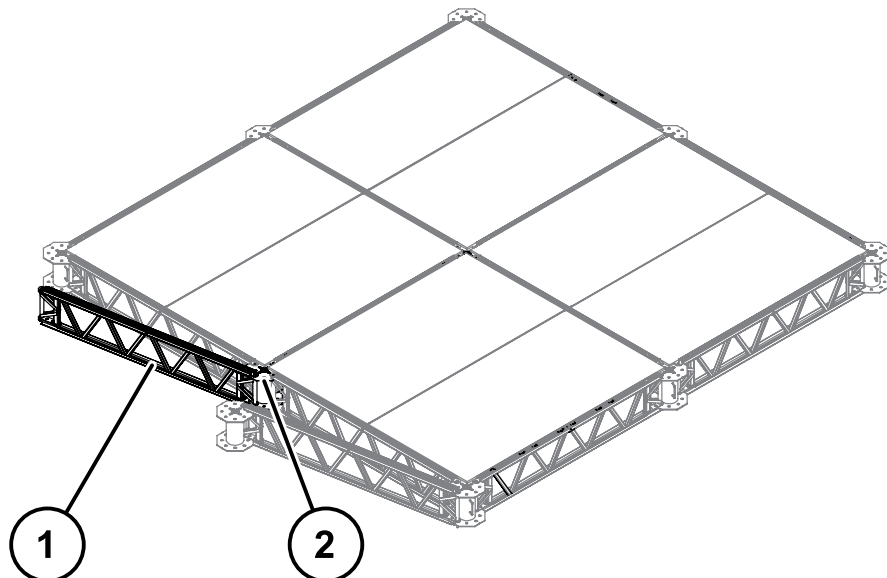
**Step 3** Use a Node Pin to attach another Node (1) to the Joist (2).



#### Attaching second Joist and Node

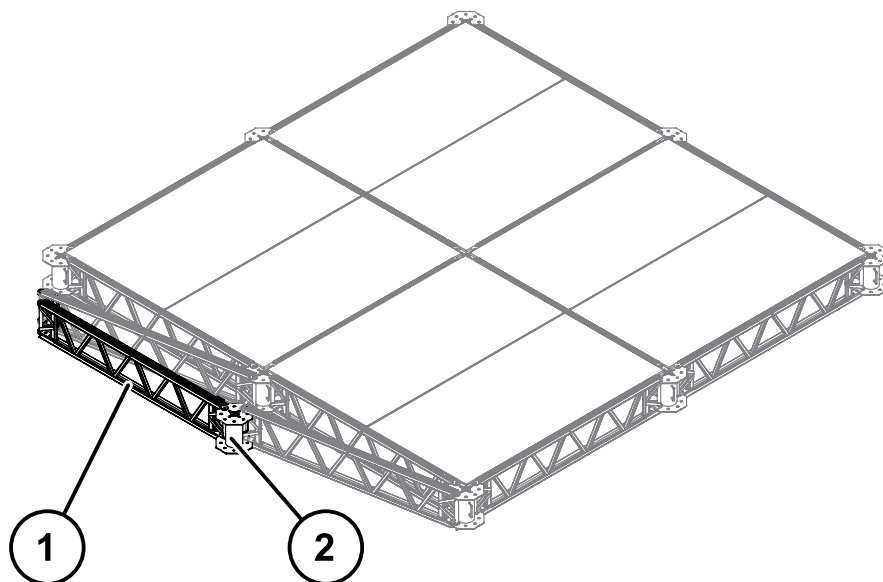
**Step 1** Attach the second Joist (1) to the next Node (2) on the starter platform.

**Step 2** Secure the Joist with Node Pins.

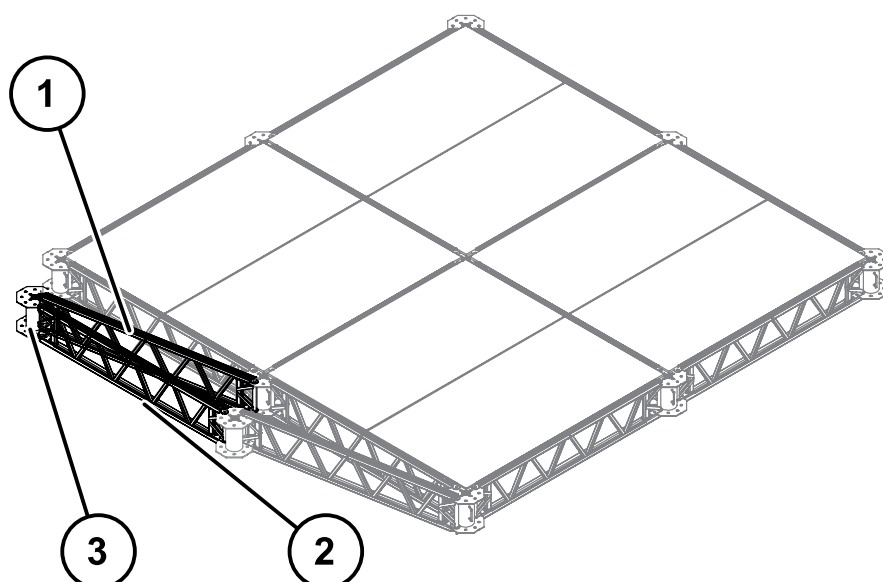


## Attaching third Joist

- Step 1** Connect the third Joist (1) to the free Node.
- Step 2** Secure the Joist with Node Pins.
- Step 3** Use a Hitch Pin to secure the Joist (1) and Node (2) to ensure that, after the bay is turned to the final position, the Node is positioned properly.

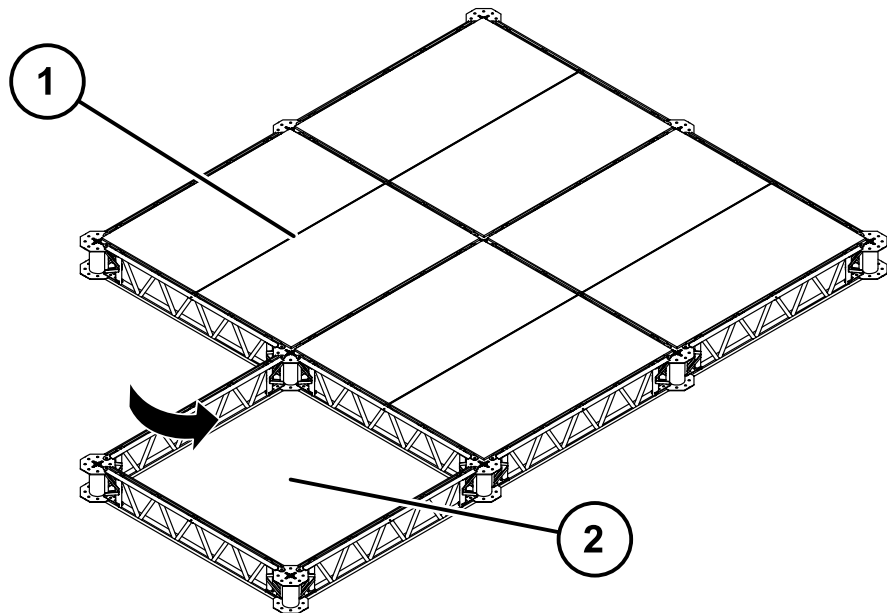


- Step 4** Install the second Node (3) between the second (1) and third (2) Joists.
- Step 5** Secure the Node to the second and third Joists with Node Pins.



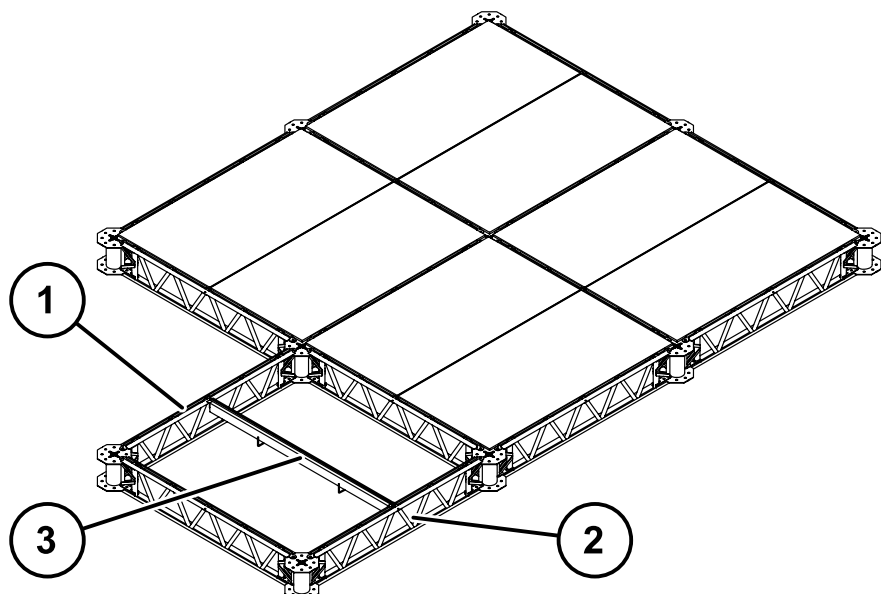
### Completing grid

- Step 1** Press the Joist outward until the newly created grid (2) is square and the edges of the Joists line up with the existing platform (1). Temporarily install the QD Hitch Pin in joist anti-rotation



- Step 2** Temporarily install the QD Hitch Pin in joist anti-rotation pin location at both ends of the joist shown on the section Attaching the third joist. This will ensure the correct orientation of the node when module is rotated into position. Note position of the joist and node connections.

- Step 3** Install a Deck Support (3) between the Joists (1) and (2).



- Step 4** Place Plyform Decks on the grid.

- Step 5** Secure the Plyform Decks with Deck Retainers.

The new grid is then finished. Repeat these steps to assemble another grid. Do not place any load on grids that are not yet properly suspended.

## Adding a row of grids

- Step 1** To add an entire row of grids, attach the desired number of grids, one next to the other, as described above.
- Step 2** Fold out all of the grids at the same time.
- Step 3** Install Deck Supports in all of the grids.
- Step 4** Place the Plyform Decks on the grid and secure them.  
Proceed as follows to securely suspend the cantilevered grid from the load-bearing structure:
- Step 5** Verify that the platform is properly suspended at all Nodes along the edge of the cantilever.
- Step 6** Align and level the attached grids as described beginning on page 82.

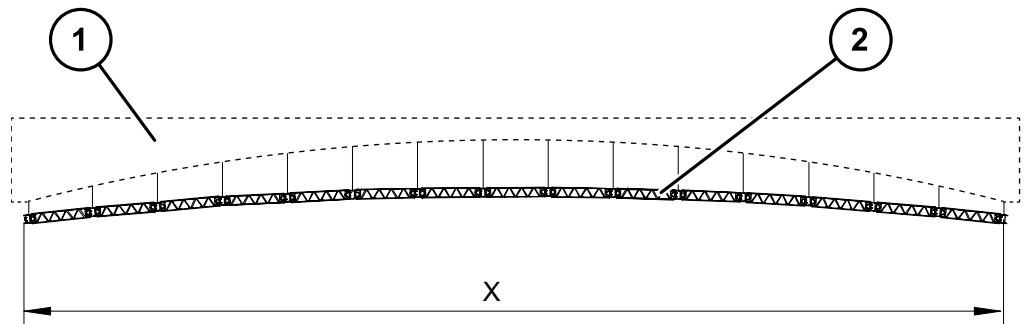
### TIP

Suspend the new grids from the load-bearing structure before attaching more grids. Notes on how to safely suspend the work platform can be found beginning on page 72.

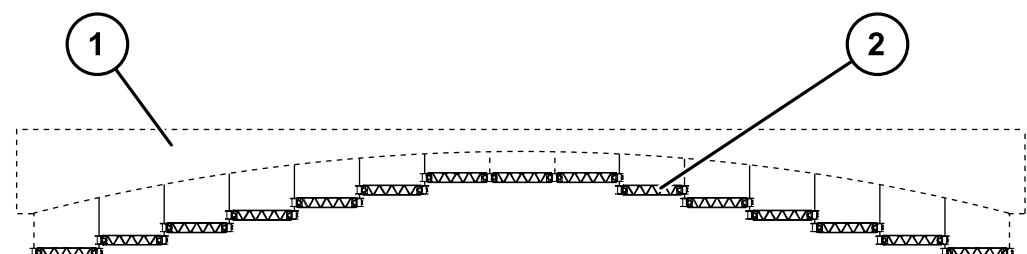
Additional grids can then be attached to the platform.

## 8.6.3 Using Quikdeck under arches

Quikdeck (2) can also be used to access arches. The length of the arch (X) of an arched structure (1) from which a work platform (2) is suspended must be at least 163 m.



It is also possible to suspend Quikdeck (2) from an arched structure (1) as a tiered assembly. When this method is used, it may happen that two Nodes do not necessarily share the same load-bearing element. The lengths of the suspension chains vary in this configuration.



For more information on how to adapt the access system for use under arches, contact HÜNNEBECK.

## 8.7 Securing platform

This section describes how to secure the platform from environmental influences and to prevent persons and objects from falling off the platform. The work platform can be used once all of the safety features are in place. Persons without proper qualifications as an assembler (Refer to page 11) may not go onto the platform until all of the safety measures have been completed.



### DANGER

#### **Risk of fatal injury in the event of falling from Quikdeck due to missing components or mounting parts!**

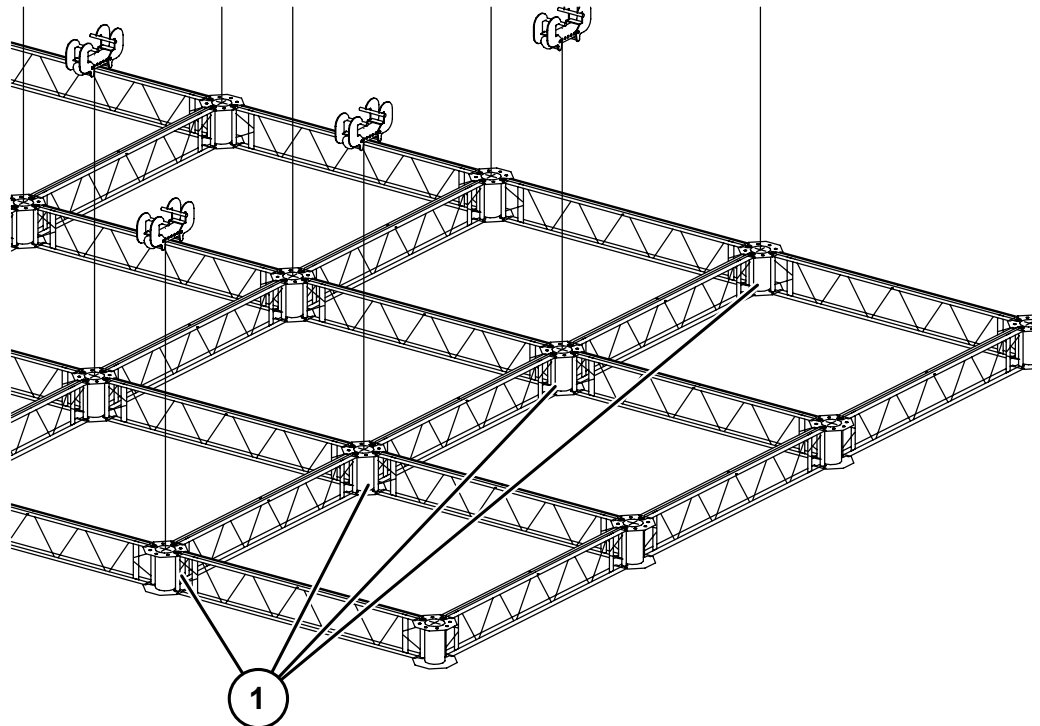
Missing, damaged or incorrectly or inadequately fastened mounting elements as well as missing railings can result in person or objects falling from Quikdeck.

- Do not use any damaged components.
- Ensure that all mounting parts are securely attached.
- Ensure that all barriers, decks and guard rails are fitted to Quikdeck as described and illustrated in this user guide.
- Ensure that all persons working or standing on Quikdeck use suitable personal fall protection.

Information on the qualifications required can be found in Section **Safety devices and protective equipment** on page 12.

**Step 1** Brace the platform properly to prevent it from tilting.

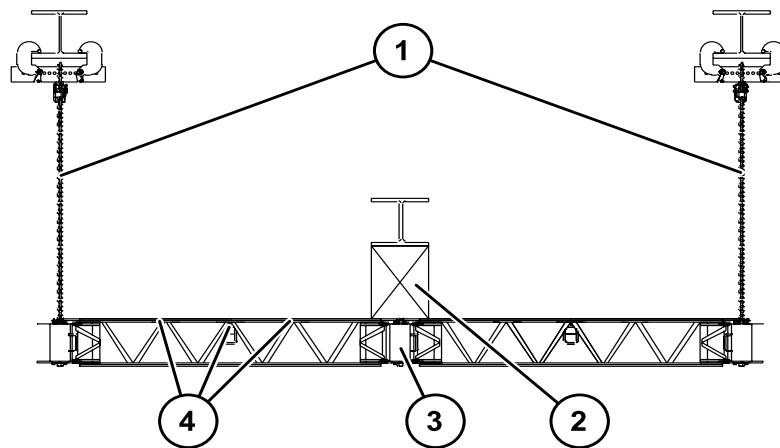
**Step 2** Attach suspenders to all Nodes connecting the platform to the cantilevered grids (1).



## 8.7.1 Installing uplift restraints

Chains (1) absorb their own weight and the live loads on the platform, but they are not resistant to uplift. Wind can subject Quikdeck to excessive load. The actual strain to which the structure is subjected on site has to be calculated by a qualified person (planner) and be an integral aspect of the assembly instructions.

Additional uplift bracing (2) suitable for the specific application, based on the respective calculations, has to be installed on the platform. Bracing has to be installed at the Nodes (3) and/or the attachment points (4) along the Joists.



**Step 1** Properly attach uplift bracing between the deck and the load-bearing element.

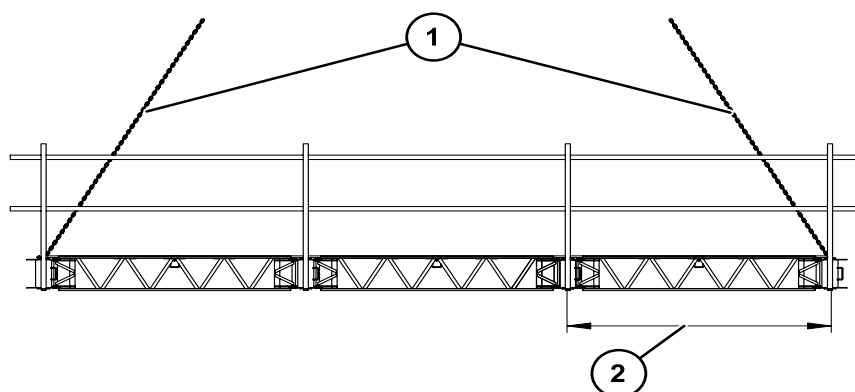
## 8.7.2 Installing wind bracing

Vertical chains do not protect the work platform from lateral wind loads. It is essential that a qualified person calculate the anticipated wind forces applied to the work platform at the specific work site. The results of the calculations have to be included in the assembly instructions to determine the proper dimensions of the wind bracing.

Diagonally suspended chains stabilise the work platform and protect it from lateral wind forces. If all of the chains are suspended vertically, additional wind bracing (1) has to be installed. The bracing can consist of chains attached opposite one another. Bracing is installed in the same way as the suspension chains.

When railings and standard Toe Boards are used, the projected surface area (2) is  $1.4 \text{ m}^2$  per nominal 2.40 m of platform perimeter. When High Toe Boards and guard rails are used, the projected surface area is  $1.7 \text{ m}^2$  per nominal 2.40 m of platform perimeter. The choice of edge protection and toe boards must comply to local regulations.

Wind bracing should be properly secured to load-bearing elements using Beam Clamps or a padded choker configuration.



**Step 1** Install wind bracing at the Nodes or the attachment points as described in the assembly instructions.

### 8.7.3 Securing work platform perimeter

Three-part side protection has to be attached to secure the perimeter of the work platform.

Rigid guard rails consist of standard Scaffold Tubes and scaffold tube clamps, of mesh panels or of boards as specified by DIN EN 13374. Attach scaffold tube clamps to the ends of the rails to secure the guard rail. Also attach scaffold tube clamps to both ends of at least every sixth Railing Post.

Install Toe Boards along the outer edges or the openings in the platform. They prevent small items from falling off the platform, and they secure the Plyform Decks to the Joists.

#### TIP

Information on how to secure openings in the platform can be obtained from HÜNNBECK.



#### DANGER

#### Risk of fatal injury in the event of falling from Quikdeck due to incorrect guard rails!

Using unapproved guard rails or no guard rails at all can cause persons or objects to fall from Quikdeck.

- Use only guard rail structures approved for use on site.
- Ensure that all mounting parts are securely attached.
- Ensure that all persons working or standing on Quikdeck use suitable personal fall protection.

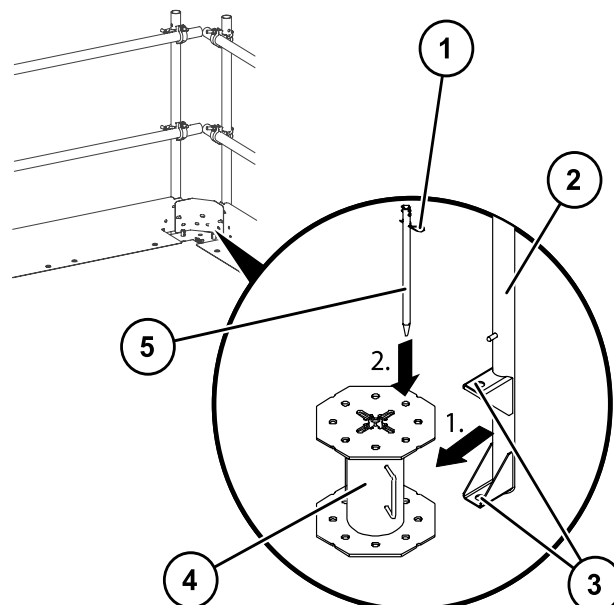
#### Installing Railing Posts

Railing Posts have to be installed in these places on Quikdeck:

- Two Railing Posts at each corner Node on the platform
- One Railing Post at each Node along the perimeter of the platform

Secure the Railing Posts to the Nodes by inserting Node Pins (5) in the mounting holes (3). Use one Rigid Coupler in each place where the guard rail made up of Scaffolds Tubes is attached to the Railing Post.

- Step 1** Place the Railing Post (2) in the Node (4) (1.).
- Step 2** Line up the mounting holes (3) on the Railing Post with the proper holes on the Node.
- Step 3** Slide the Node Pin (5) through the holes until it is stopped by the lower spring pin (2.).
- Step 4** Lock the Node Pin into place with the spring pin (1.).



## TIP

Joists not shown for clarity.

**Step 5** Repeat steps 1 to 4 to attach Railing Posts to all of the other Nodes.

### Attaching Toe Boards

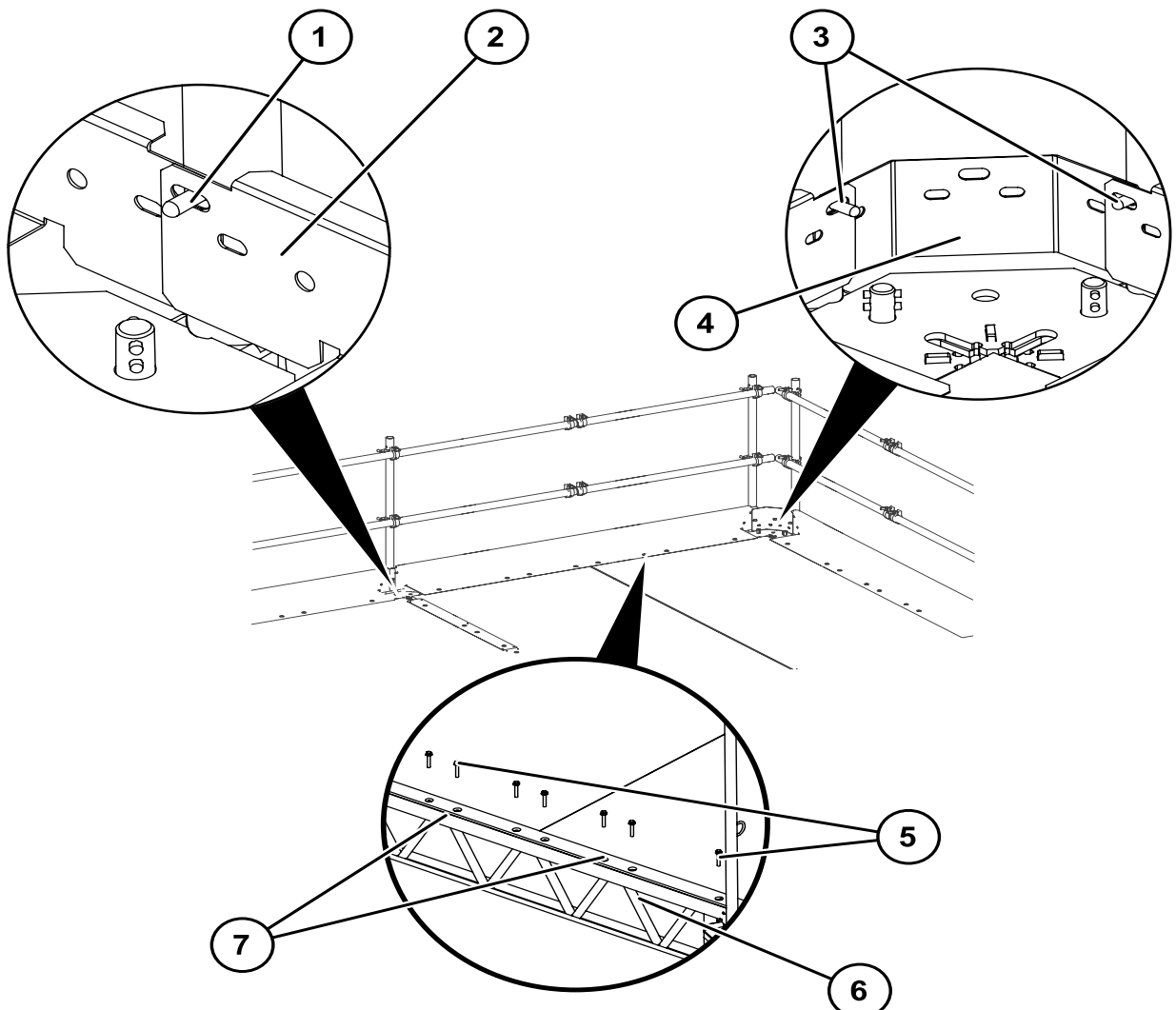
There are Toe Boards available for the various Joists. They are 150 mm high and are available for the interior and exterior edges of the platform.

Corner Infills are used at the corners of the platform. They close the gaps between the Toe Boards. There are two types of Corner Infills. High Toe Board Outside Corners QDHTBIFO are mounted on outer corners. High Toe Board Inside Corner Infills QDHTBIFI are mounted on inner corners. The following steps explain how to install the High Toe Board Outside Corners to the Toe Boards.

## TIP

Information on how to use the Toe Boards and Corner Infills on inner corners can be obtained from HÜNNEBECK.

- Step 1** Place the Corner Infill (4) slots over the pins (3) on the Railing Posts at the corners of the platform.
- Step 2** Place the Toe Board (2) slots over the pins (1) on the Railing Posts.
- Step 3** Screw eight screws (5) into the Cage Nuts (7) on the Joists (6) to secure the Toe Boards. This also serves to secure the decks along the perimeter of the platform.

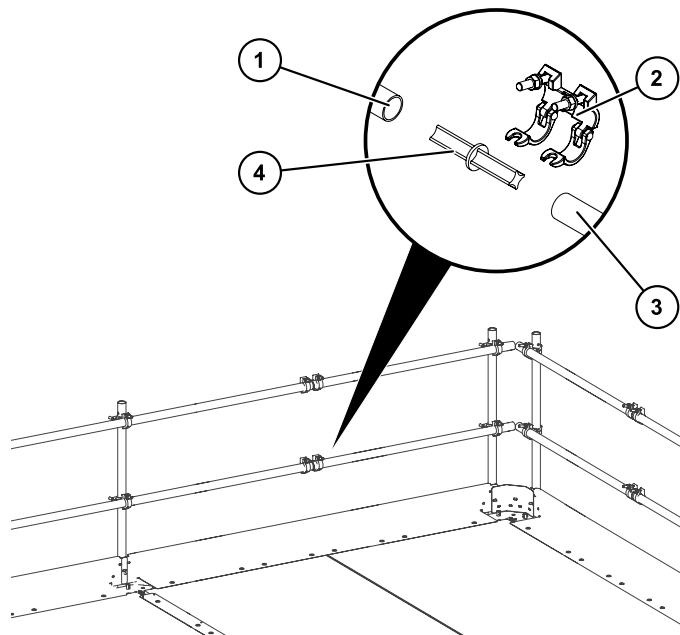


### Installing guard rails

Guard rails are made up of mesh panels or boards pursuant to DIN EN 13374 as well as of standard Scaffold Tubes. Attach the Scaffold Tubes to the Railing Posts with Rigid Couplers and connect them to one another with Tension Couplers. The spacing between the Scaffold Tubes as well as the spacing between Scaffold Tubes and Toe Boards must meet the requirements specified by EN 12811-1 and may not exceed 0.47 m. There has to be one Rigid Coupler (part code 2514) at each connection between a Scaffold Tube and a Railing Post to ensure that the guard rails are safe.

**Step 1** Connect Scaffold Tubes (1), spaced no more than 0.47 m apart, to all of the Railing Posts (3) using one Rigid Coupler (2) for each junction.

**Step 2** Tighten the screws in the Rigid Coupler to a torque of 50 Nm.



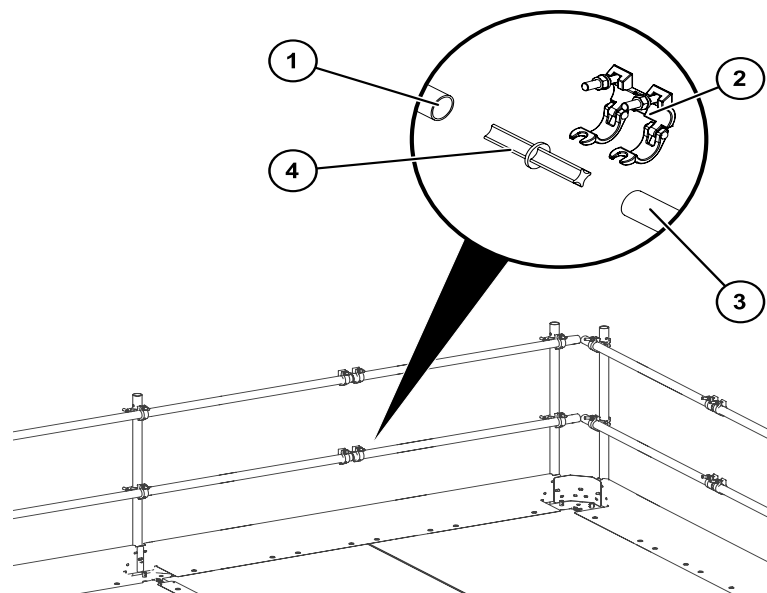
**Step 3** Insert a Tube Connector (4) (part code 801168) into the first Scaffold Tube.

**Step 4** Slide a second Scaffold Tube onto the Tube Connector.

**Step 5** Secure the Pull Coupler (part code 20003) (2) to the Scaffold Tubes on both side of the the Tube Connector.

**Step 6** Tighten the screws in the Outer Part Tension Coupler to a torque of 50 Nm.

**Step 7** Repeat steps 2 to 5 for all Scaffold Tubes.



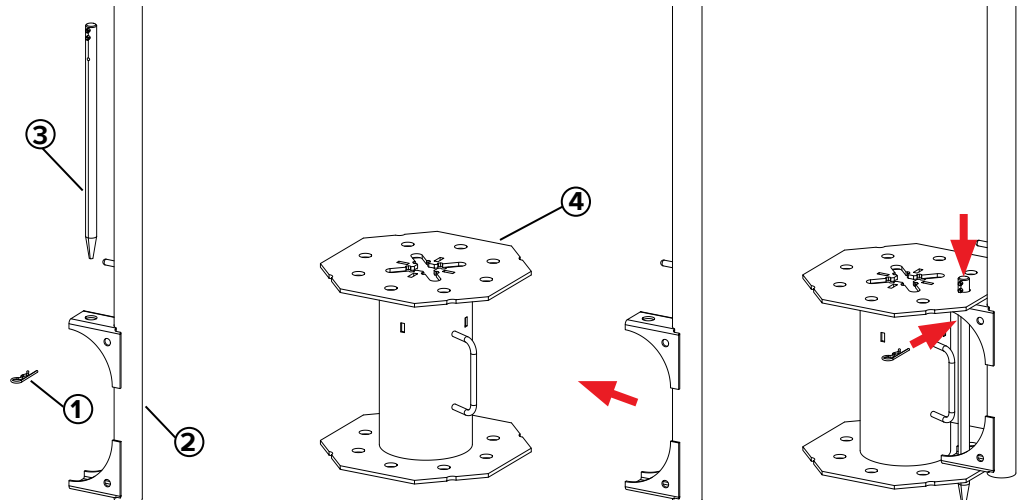
Once all of the railing tubes are securely mounted, even persons not qualified as an assembler may access the platform. Personal fall protection is no longer required.

## Installing QD Guardrail PROTECTO 4' Posts with the Uni Mesh Panels

As an alternative Uni Mesh Panels can be installed in conjunction with QD Guardrail PROTECTO Post 4':

Start by installing the QD Guardrail PROTECTO 4' Posts (2). Each post will require a QD Node Pin (3) and a QD Pin Hitch Clip #11 (1), supplied separately.

- Step 1** Line up the mounting holes of the QD Guardrail PROTECTO 4' with the proper holes on the Node (4).
- Step 2** Slide the QD Node Pin through the holes until it is stopped by the lower spring pin.
- Step 3** Secure using the QD Pin Hitch Clip #11.



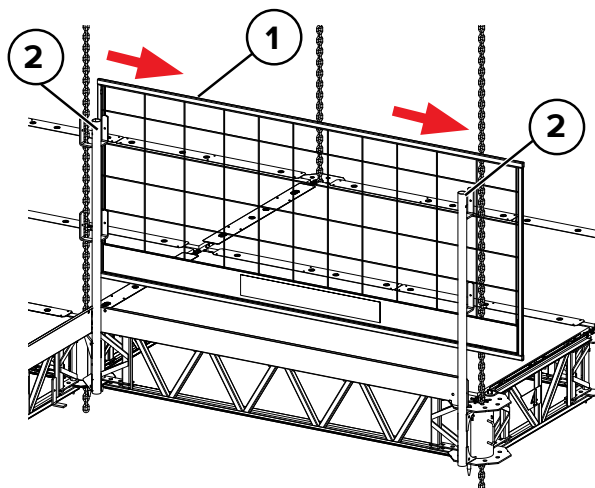
In some markets there might be a need to install toe boards to comply with local regulations. For the toe board assembly see page 94.

### TIP

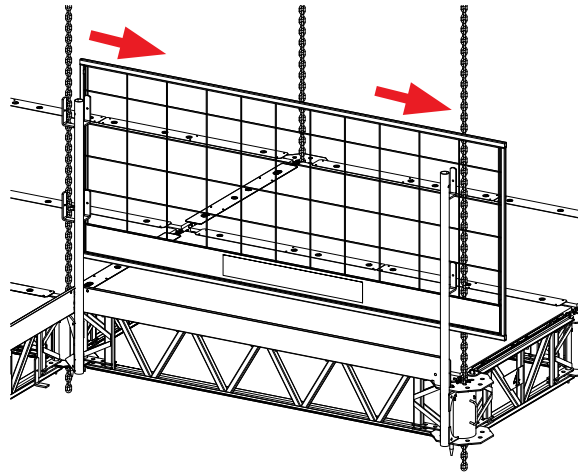
When using the toe boards with the QD Guardrail PROTECTO 4' do not install the Corner Infill as this will clash with the posts.

The following sequence shows the platform with the Toe Boards installed for reference.

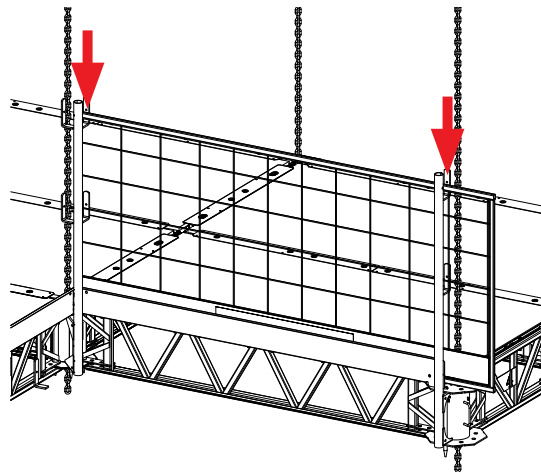
- Step 1** Slide the Uni Mesh Panel (1) between the QD Guardrail PROTECTO 4' (2) and the suspension points.



**Step 2** Line up the panel with the mounting positions of the QD Guardrail PROTECTO 4'.

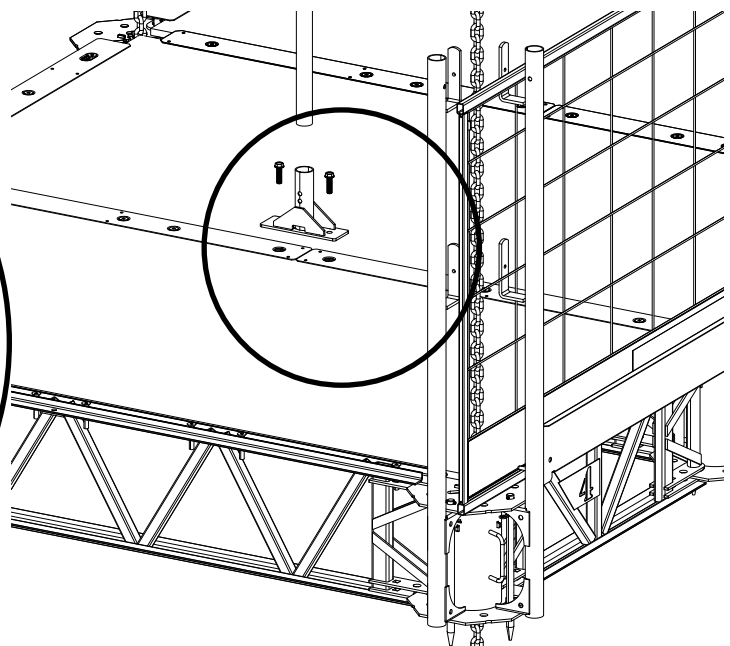
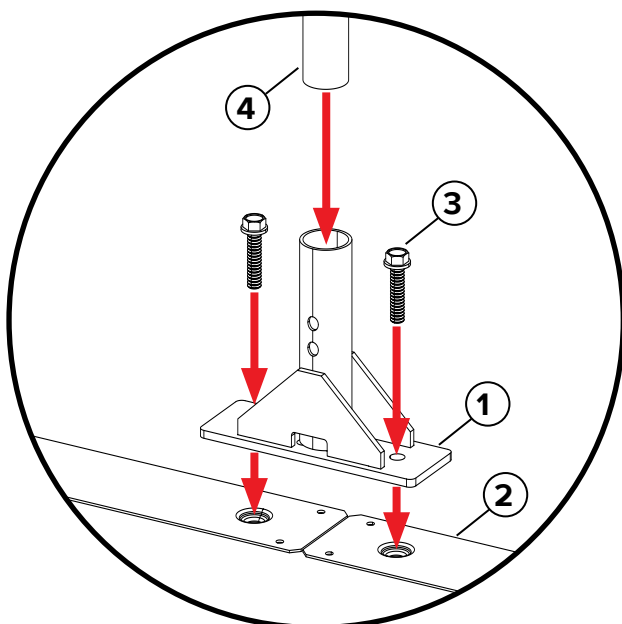


**Step 3** Lower the panels on the mounting positions of the QD Guardrail PROTECTO 4' s.



### Installing the QD Joist Mounted Socket

The QD Joist Mounted Socket is used for demarcation of internal areas of the platform if required: The QD Joist Mounted Socket (1) is attached to the QD Deck Retainer (2) using QD Hex Flange Bolt 1/2-13 x 2 1/2 (3), two per socket as shown below. A suitable post (4) is then inserted into the QD Joist Mounted Socket and secured against uplift.





## DANGER

### Risk of fatal injury in the event of falling from Quikdeck due to incorrect guard rails!

Do not use the QD Joist Mounted Socket as part of an edge protection system. The QD Joist Mounted Socket is intended for demarcation only and not to be installed on leading edges.

## 8.8 Alternative attachment points on load-bearing structures

In addition to the previously mentioned steel beams, Quikdeck can also be suspended by other attachment points. The type of attachment points is a factor of the conditions in the specific case. Local regulations and the calculated loads are particularly relevant to selection of suitable attachment points. The type of attachment points has to be specified in the assembly instructions.

Some examples of how Quikdeck can be secured:

- Attaching to a load-bearing structure (e.g. to steel beams using Beam Clamps)
- Lanyards or chains wrapped around a load-bearing structure
- Anchoring in a load-bearing structure
- Anchoring through holes drilled in a load-bearing structure.

Whichever method is selected, always verify that it is stable and sturdy enough.

Please contact HÜNNEBECK for more information.

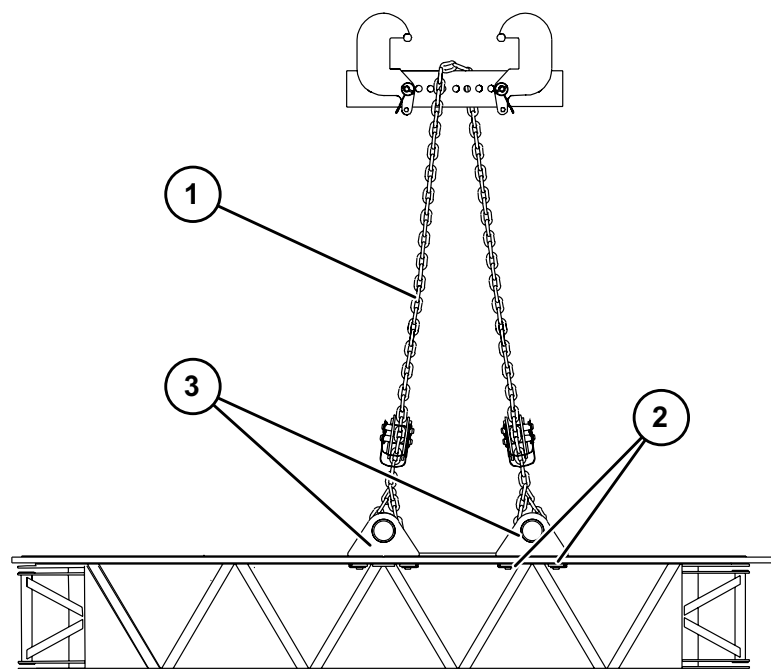
## 8.9 Using optional parts

### TIP

Information on how to use the Toe Boards and Corner Infills on inner corners can be obtained from HÜNNEBECK.

### 8.9.1 Using Auxiliary Suspender Brackets

If for whatever reason the suspender (1) cannot be attached to the Node, Auxiliary Suspenders can be used. Auxiliary Suspender Brackets (3) with two Auxiliary Suspender Mounting Bolts each are screwed onto the attachment points with Cage Nuts (2) to accommodate the Auxiliary Suspenders.





**DANGER**

**Risk of fatal injury due to use of damaged Auxiliary Suspenders!**

If Auxiliary Suspenders are not positioned correctly, the result can be a lower load rating.

- Use mounting parts for Auxiliary Suspenders only once.
- After removal/disassembly, replace the mounting parts with new ones of the same type.



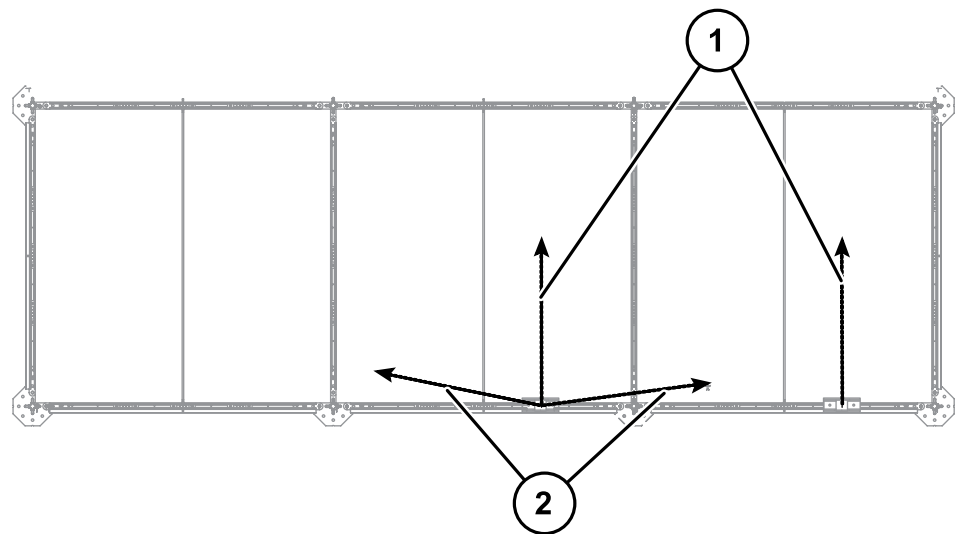
**DANGER**

**Risk of fatal injury due to incorrect placement of Auxiliary Suspenders!**

If Auxiliary Suspenders are not positioned correctly, the result can be a lower load rating.

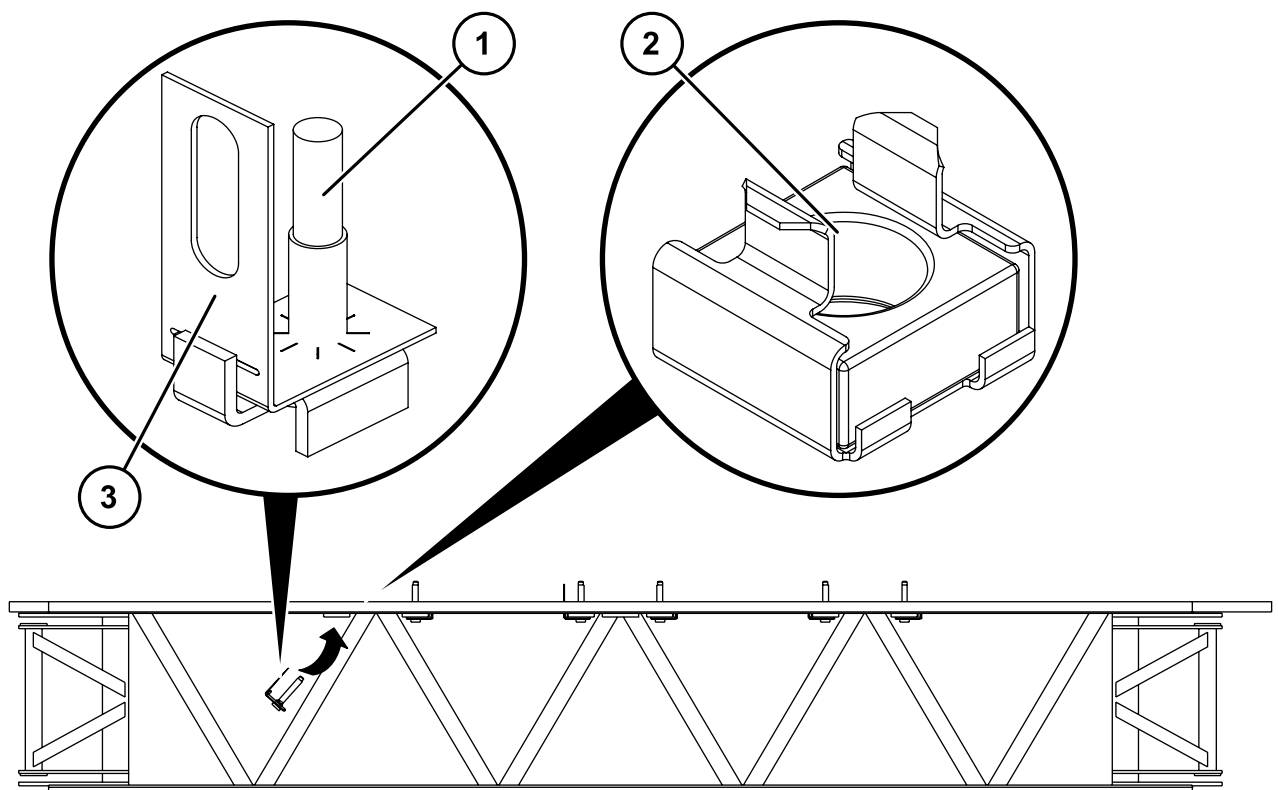
- Always suspend the platform such that the chains face towards the platform.

The suspension chains have to face the platform (1) or run parallel to its perimeter (2).

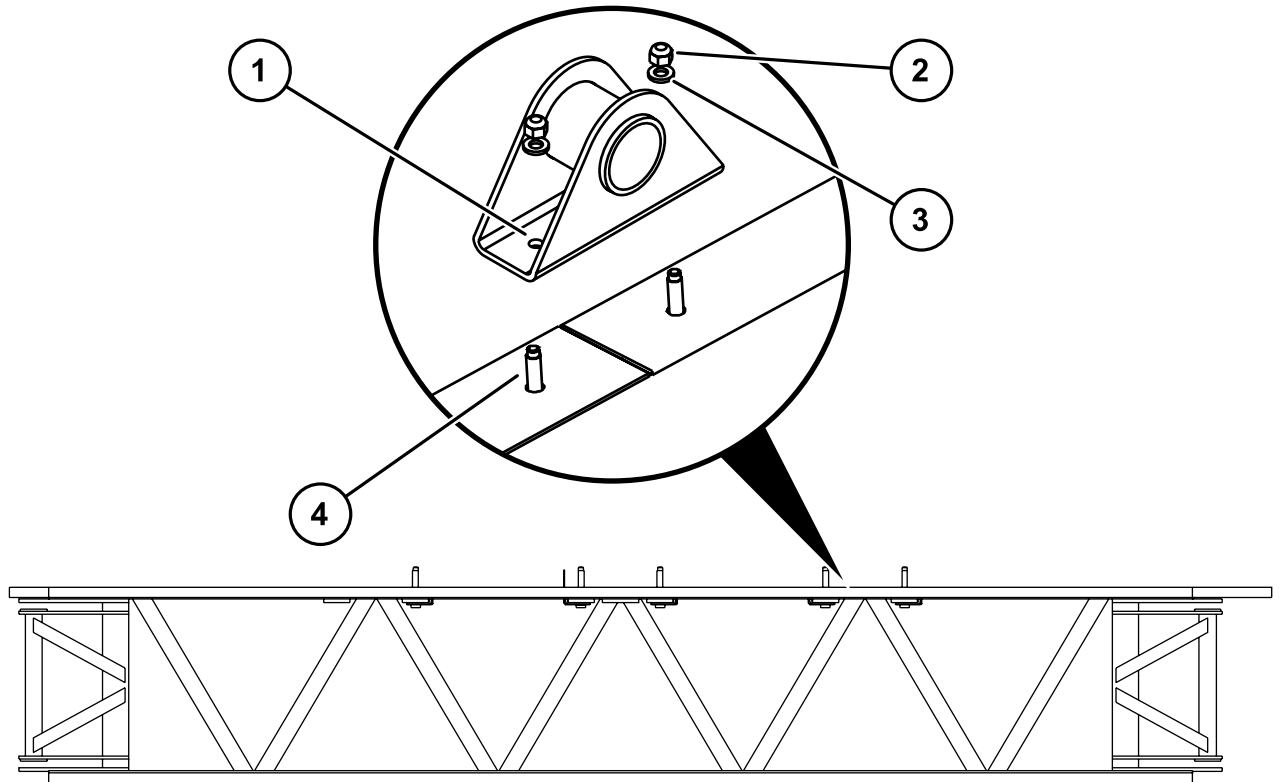


**Step 1** Slide the Mounting Bolt (1) through the Cage Nut (2) from below.

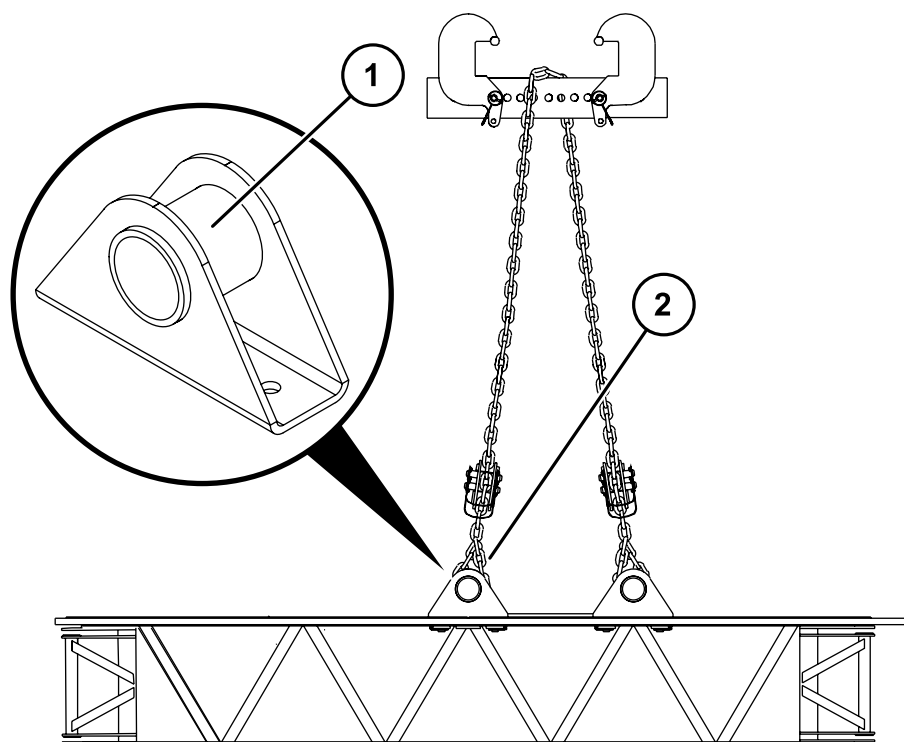
**Step 2** Bend the retaining tab (3) to rest on the Cage Nut.



- Step 3** Place the holes (1) in the bracket for the Auxiliary Suspender over the Mounting Bolts (4).
- Step 4** Place the Flat Washers (3) on the Mounting Bolts.
- Step 5** Place the nuts (2) on the Mounting Bolts.



- Step 6** Tighten the screws to a torque of 70 ft.lbs (95 Nm).
- Step 7** Create a choker configuration around the suspender tube (1) with Chains (2) or wire ropes.
- Step 8** Suspend the chains as described beginning on page 71.



A Chain Coupler Assembly along with a choker configuration is needed to securely suspend the platform with chains.

The Auxiliary Suspenders may be installed at any joist hard point along the Joist. Any configuration that is not part of the standard layouts requires proper certification to determine the load capacity. Please contact HÜNNEBECK for additional information.

### 8.9.2 Special configurations

Quikdeck does not always have to be assembled only as a rectangle. The arrangement of the platform can be varied to increase the load capacity or to adapt it to special conditions.



#### **DANGER**

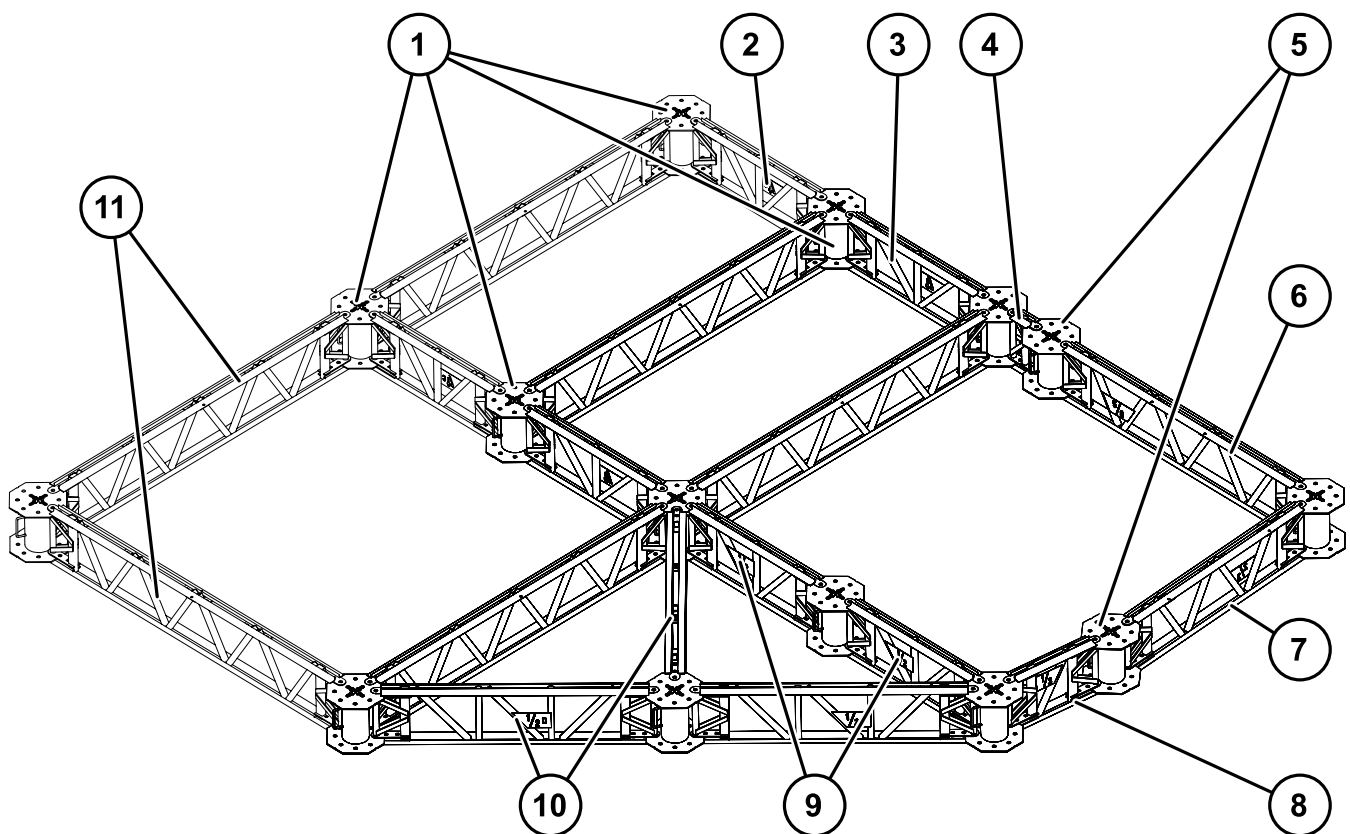
#### **Risk of fatal injury due to incorrect placement of suspenders!**

If suspenders are not positioned correctly, the result can be a lower load rating.

- Suspend the platform only from Nodes that are protected from twisting.

Nodes are protected from twisting if they are connected to at least three Joists or are attached to the corners of the platform.

The following illustration shows different configurations that are possible. Nodes protected from twisting (1) and Nodes that are not protected from twisting (5) are also shown.



- 1 QD Node, protected from twisting QDN
- 2 QD Joist 4C (123 cm) with Nuts QDJ4C
- 3 QD Joist 4' (128 cm) with Nuts QDJ4
- 4 QD Joist 1/6 (42 cm) QDJ16
- 5 QD Node, not protected from twisting QDN
- 6 QD Diagonal Joist 5/6 (208 cm) with Nuts QDJ56
- 7 QD Joist 2/3 (168 cm) QDJ23
- 8 QD Joist 1/3 (83 cm) QDJ13

- 9 QD Joist 1/2 (125 cm) QDJ12
- 10 QD Diagonal Joist 1/2 (177 cm) with Nuts QDJ12D
- 11 QD Joist 8' (250 cm) with Nuts QDJ8

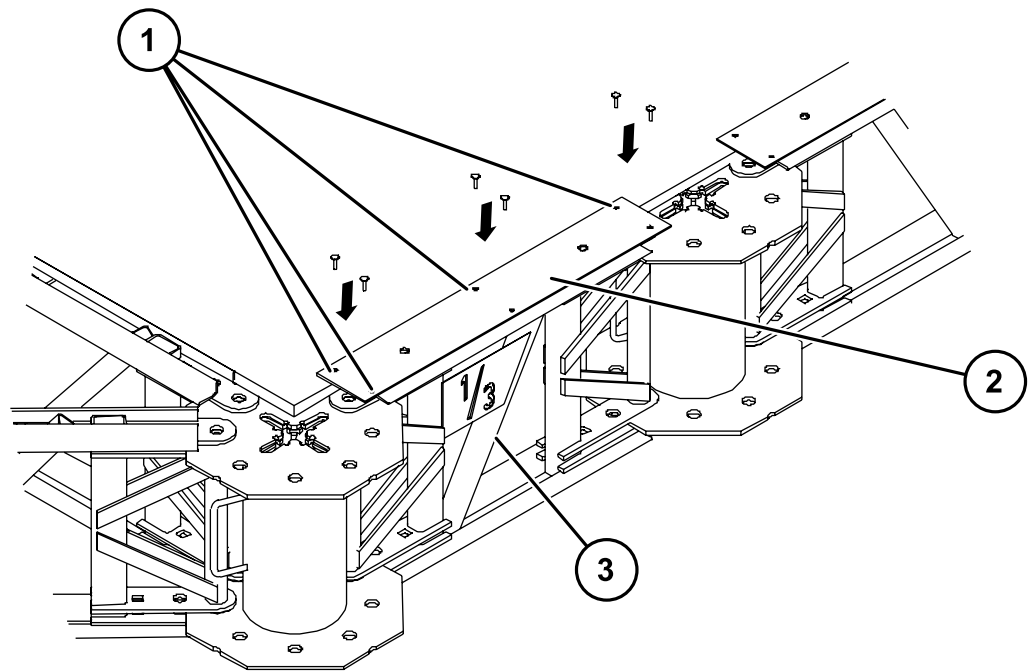
**Step 1** Install the Joists and Nodes to create the desired platform configuration.

## TIP

When using short Joists, Nodes have to be attached to three Joists if they are not at the corner of a platform. If it is not feasible to attach the Node to a third Joist, install Deck Retainers to stabilise the Node. Follow these steps:

**Step 2** Place a Deck Retainer (2) of the proper length on the short Joist (3).

**Step 3** Screw the Deck Retainer into all of the holes (1) in the Joist.



## 8.9.3 Using Cut-to-Fit Joist Tubes

If the conditions on site do not permit the use of standard length Joists, Cut-to-Fit Joist Tubes can be used instead. Cut-to-Fit Joist Tubes are created by cutting support tubes to fit the required span. Cut-to-Fit Joist Ends QDJCE are placed on both ends of the support tube.



## DANGER

### Risk of fatal injury when Cut-to-Fit Joist Tubes are overloaded!

Cut-to-Fit Joist Tubes have a lower load rating; they cannot absorb bending forces and they may not protrude from the platform.

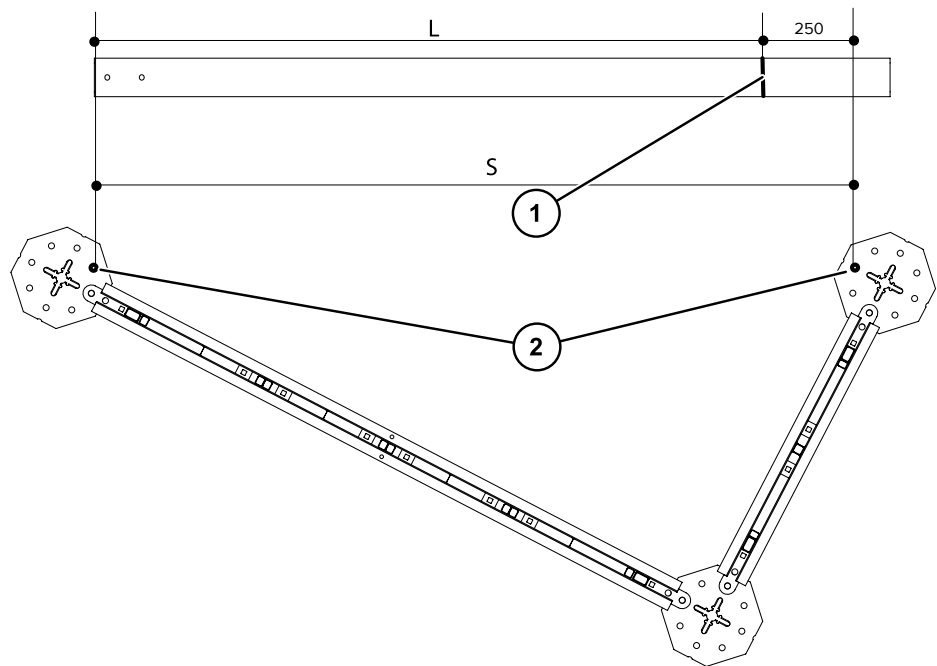
- Attach both ends of Cut-to-Fit Joist Tubes to the Nodes.
- Do not connect a series of Cut-to-Fit Joist Tubes and Nodes.
- Do not use Cut-to-Fit Joist Tubes longer than 2.6 m.

Use Cut-to-Fit Joist Tubes only for properly certified applications, otherwise a specific structural calculation is required.

Contact HÜNNEBECK for additional information on Cut-to-Fit Joist Tubes.

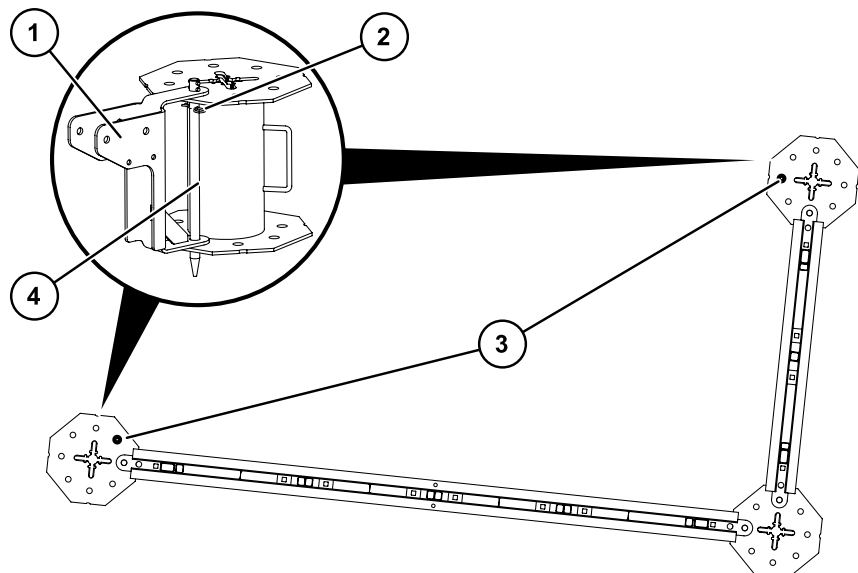
### Preparing support tube

- Step 1** Attach Nodes to both ends of the position where the Cut-to-Fit Joist Tube is to be attached.
- Step 2** Insert Hitch Pins in all of the connections between the Joists and the Nodes at both ends of the Joist.
- Step 3** Measure the span “S” between the holes (2) in the two relevant Nodes.
- Step 4** To calculate the length “L” of the support tube, subtract 0.25 m from the value “S”.
- Step 5** Cut the support tube to the determined value “L”, cutting off the end without the holes (1).



### Attaching Cut-to-Fit Joist End

- Step 1** Place the Cut-to-Fit Joist End QDJCE (1) onto the proper hole (3) in the Node.
- Step 2** Secure the Cut-to-Fit Joist End to the Node with a Node Pin (4).
- Step 3** Lock the Node Pin into place with the spring pin (2).
- Step 4** Secure the second Cut-to-Fit Joist End to the other Node in the same way.



## Drilling holes in support tube

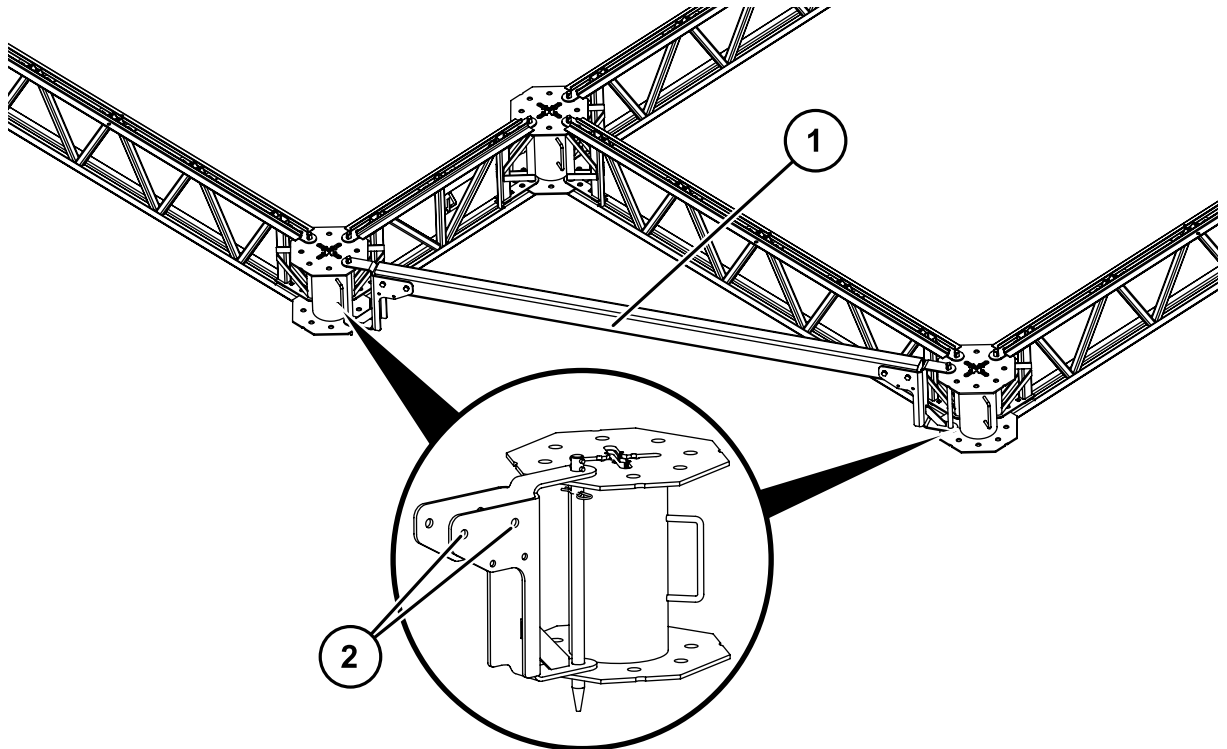


### DANGER

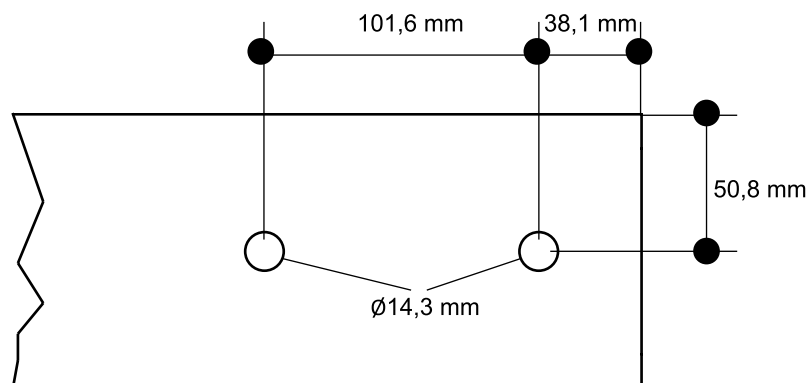
#### Risk of fatal injury from unsecured objects falling!

- Ensure that all objects, particularly the support tube, are securely installed.

- Step 1** Place the support tube (1) in the Cut-to-Fit Joist End, lining up the holes (2) in the two parts, and secure it with Hex Flange Bolts and nuts.
- Step 2** Insert the other end of the support tube in the other Cut-to-Fit Joist End.
- Step 3** Mark the position of the holes (2) in the other Cut-to-Fit Joist End on the support tube.
- Step 4** Release the screws and remove the support tube.



- Step 5** Use the proper drill bit to drill holes at the marks on the support tube as shown in this drawing.



### Attaching support tube



## DANGER

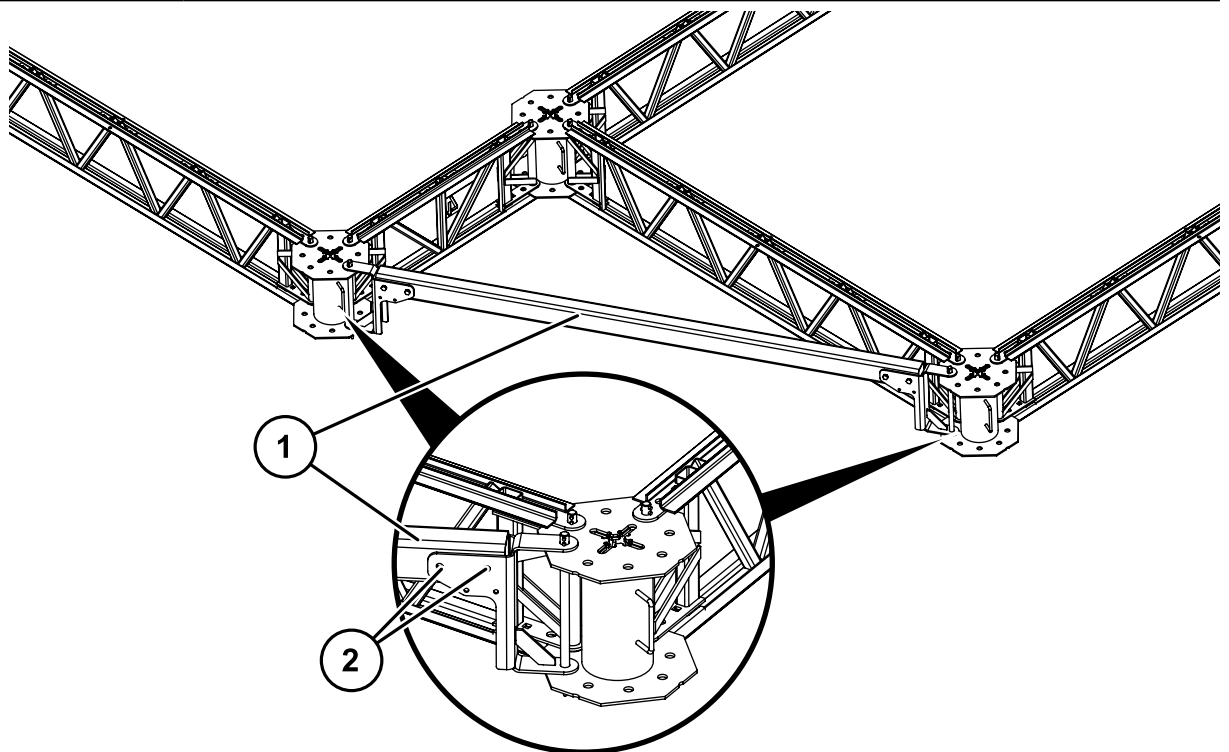
### Risk of fatal injury from unsecured objects falling!

- Ensure that all objects, particularly the support tube, are secure.

- Step 1** Use Hex Flange Bolts and locking nuts to secure the support tube (1) in the holes (2) on the Cut-to-Fit Joist End.
- Step 2** Tighten the Hex Flange Bolts to a torque of 20 Nm.
- Step 3** Attach the other end of the support tube to the second Cut-to-Fit Joist End in the same way.

## TIP

At least three threads should be visible behind the locking nut.



### Securing infill zones

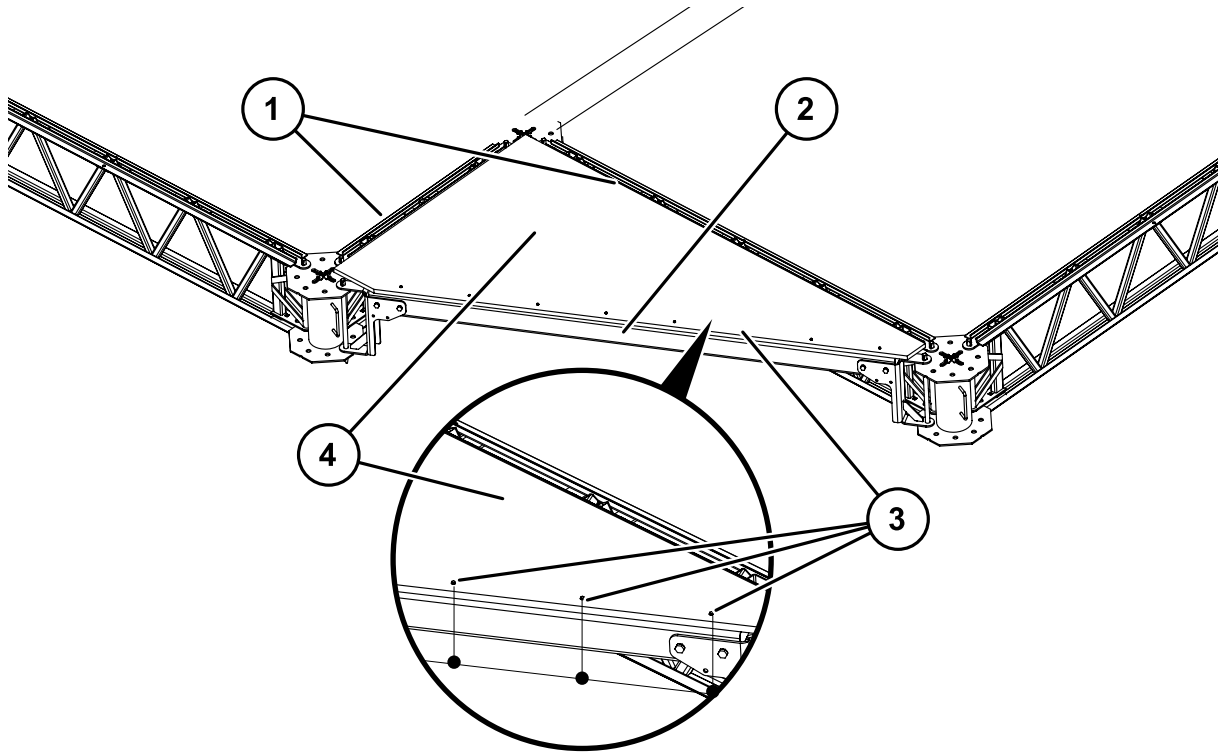
Infill zones normally cannot be covered with standard decks. The deck has to be adapted to the specific infill zone. The deck has to have the same load-bearing capacity as a standard deck.

## TIP

When standard Toe Boards are used, they can be fastened directly to the deck with self-tapping screws. Otherwise a sufficient quantity of self-tapping screws, 1½" long, have to be used.

- Step 1** Place the deck (4) on the Joists (1) as described beginning on page 73.
- Step 2** Cut the deck such that the support tube (2) is completely covered but the deck does not protrude beyond the support tube.
- Step 3** Secure the deck to the Joists as described beginning on page 75.

- Step 4** Screw the included screws (3) through the deck and into the support tube, spacing them 30 cm (12") apart.



- Step 5** Construct toe boards that are the same height as the standard Toe Boards QDHTB.

- Step 6** Secure the toe boards as described on page 94.

## 8.9.4 Adapting Quikdeck to obstacles and recesses

There may be obstacles in the area where a platform is to be set up. Obstacles could be e.g. pipes, cables, pillars or bridge abutments. Quikdeck can be constructed around such impediments. By following the instructions here, gaps in the platform deck or a decrease in structural stability can be avoided. In case a standard layout cannot be built, special calculations are required. Contact HÜNNEBECK for more information.

The examples described in the following section require using these accessories and optional components:

- Optional Joists
- QD Deck Support Hanger Lumber QDDSHL4
- QD Deck Support Hanger for QD reinforcement QDDSH

Square timber 50 mm x 150 mm can normally be used as deck reinforcements. The timber can be cut to the required length. Deck reinforcements can rest on a Joist or a Deck Support. The ends of the deck reinforcements have to be fastened to the Deck Support Hangers with four wood screws.

Standard Plyform Decks should be used to construct the deck. They just have to be cut to fit the dimensions of the infill zone.



**DANGER**

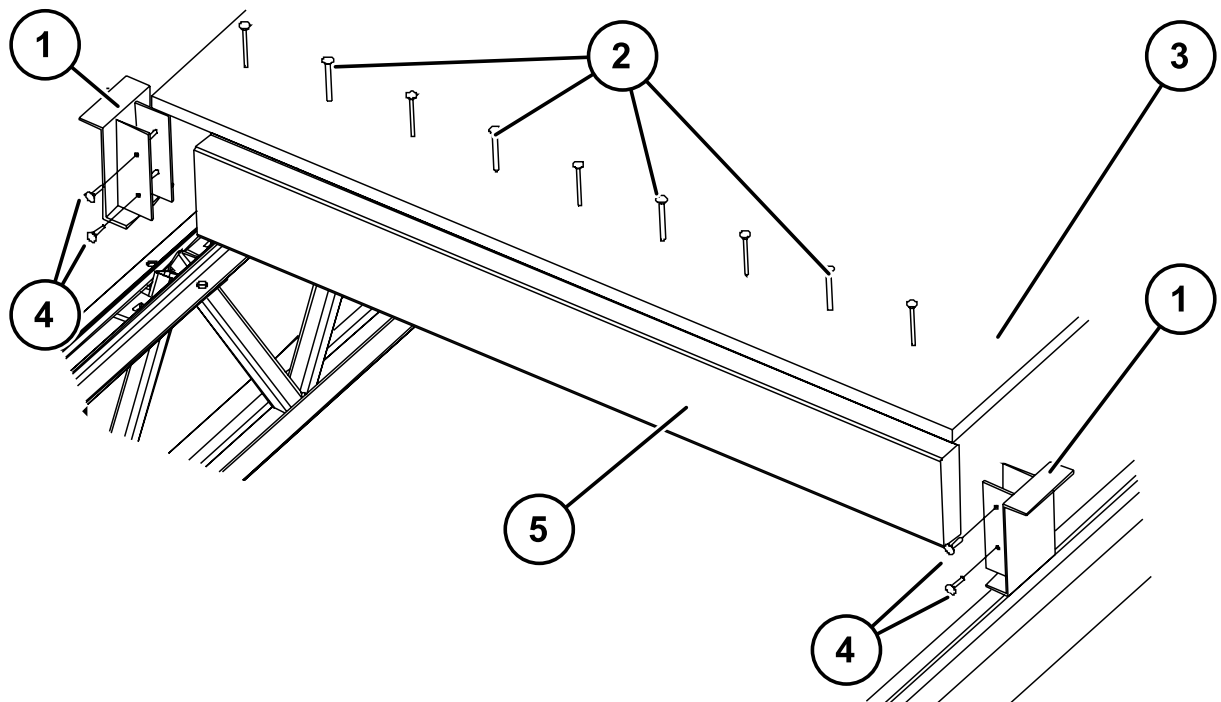
**Risk of fatal injury when using unsuitable or incorrectly installed components!**

Unsuitable components may result in a diminished load rating or failure of Quikdeck components.

- Check that all components are in serviceable condition before use and at the specified intervals.
- Do not use damaged or unsuitable components.
- Verify that all components are installed correctly.
- Use construction timber only for spans up to 1.20 m.

Deck reinforcements have proven reliable only up to a span of 1.20 m.

- Step 1** Place the QD Deck Support Hangers QDDSH (1) on the Joists as close as possible to the obstacle, at a right angle.
- Step 2** Place a deck reinforcement, e.g. QDDSHL4 (5), in the Deck Support Hangers.
- Step 3** Use two wood screws #10 x 1 (99-21450) (4) to connect each of the Deck Support Hangers to the two deck reinforcements.
- Step 4** Cut the Plyform Deck to the proper size.
- Step 5** Place the Plyform Deck on the deck reinforcement and the Joists.
- Step 6** Secure the Plyform Deck to the deck reinforcement with screws #10 x 2½ (99-21449) (2), spaced no more than 127 mm apart.



The following sections describe how to adapt the platform to various situations.

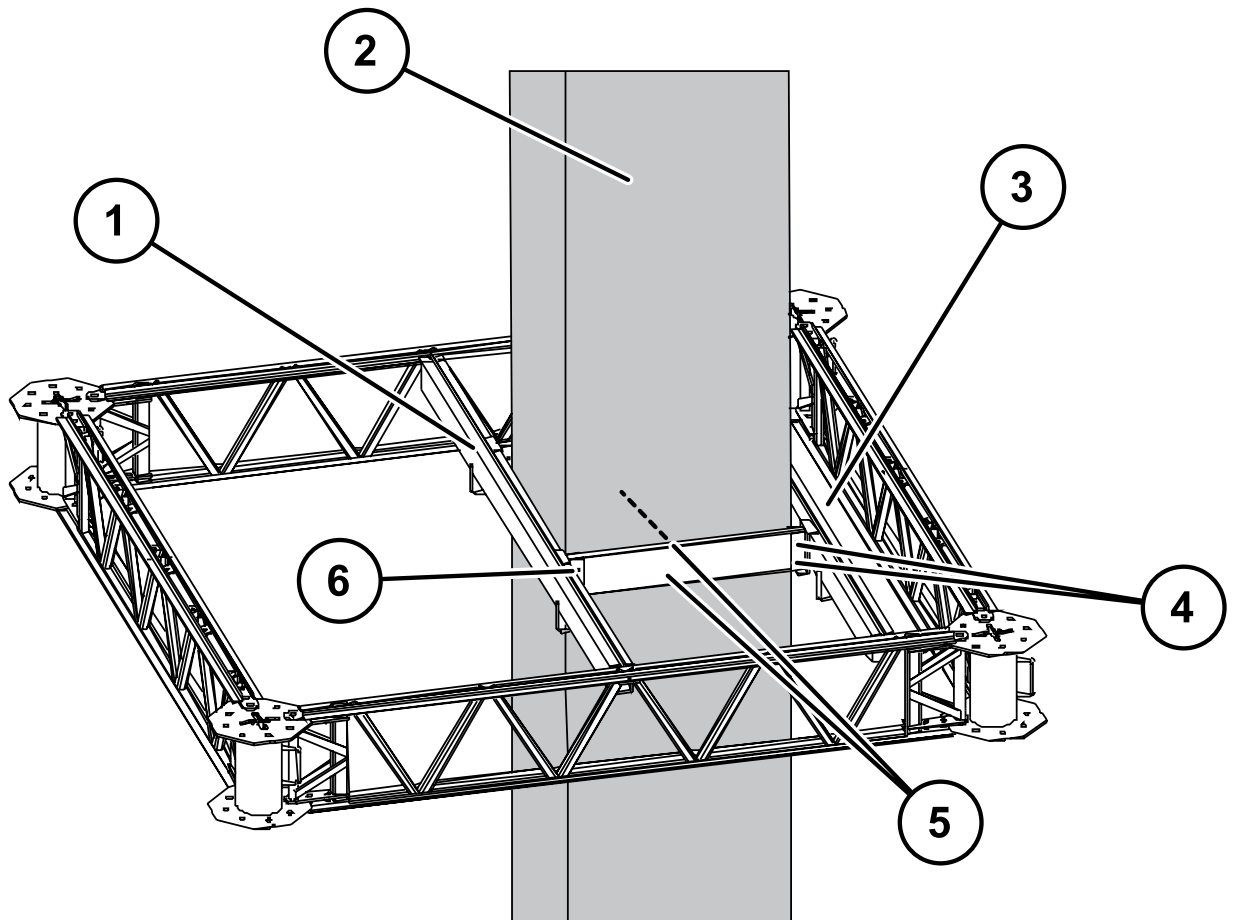
## Example 1 – Obstacle the size of a Quikdeck bay in the grid

If the obstacle fits in the 1.20 m x 2.40 m field, the primary Deck Support in both directions can be put into place depending of the position of the obstacle.

In the following cases it may be necessary to attach another Deck Support in addition to the QD Deck Support (primary Deck Support) to act as a secondary Deck Support:

- When the space between the obstacle and primary Deck Support is greater than 0.30 m or
- When the obstacle and the Joist parallel to the primary Deck Support is greater than 0.30 m.

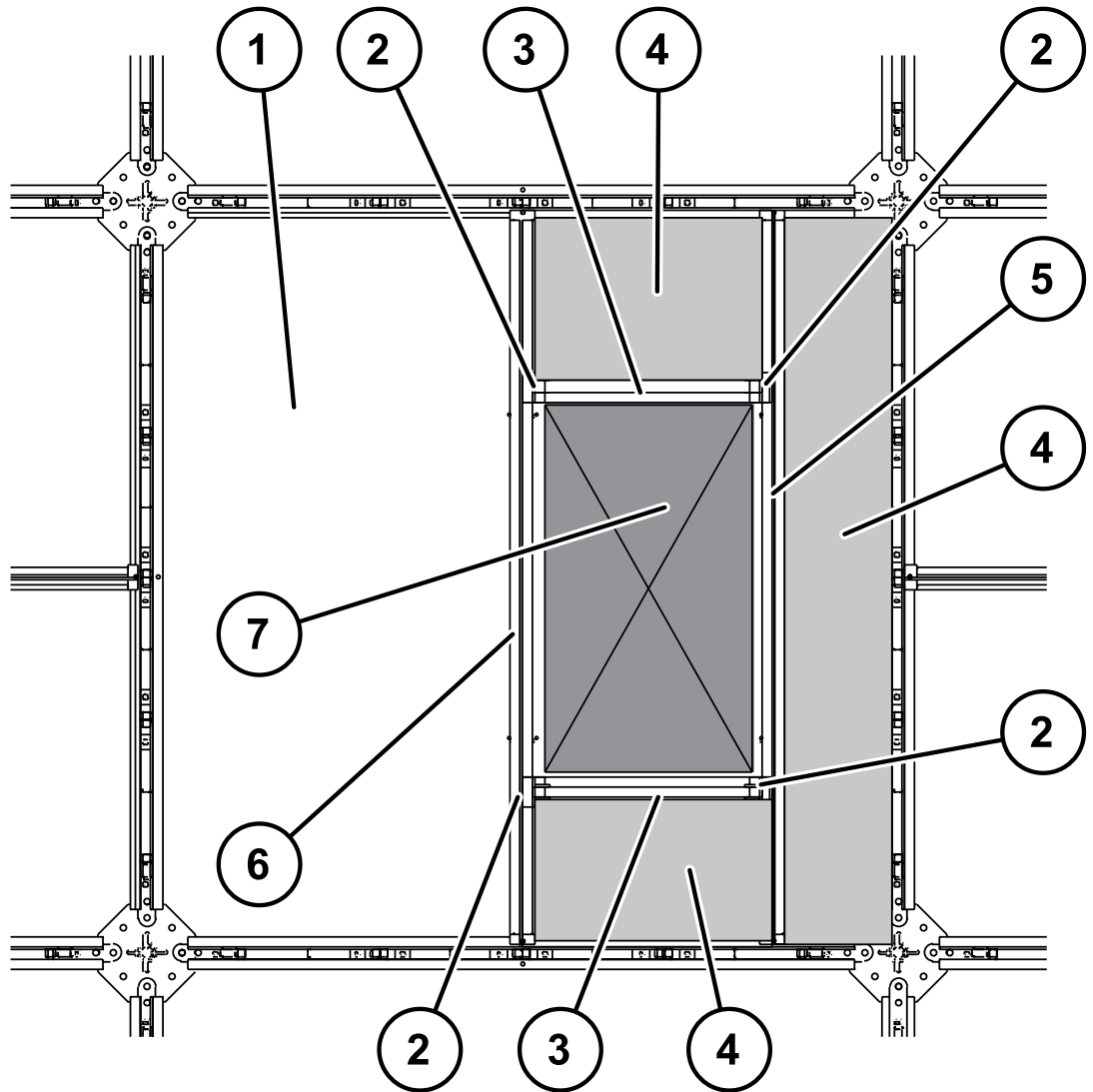
- Step 1** Attach a QD Deck Support QDDS (1) as the primary Deck Support in a grid of 2.40 m x 2.40 m.
- Step 2** If necessary, attach a Deck Support without Pins QDDSWOP (3) as close as possible to the obstacle (2).
- Step 3** Attach two QD Deck Support Hangers QDDSH (6) on both sides, between the primary Deck Support and the secondary Deck Support, as close as possible to the obstacle.
- Step 4** On both sides of the obstacle, attach one deck reinforcement, e.g. QDDSHL4 (5) to each Deck Support Hanger at a right angle to the primary Deck Support.  
Use two wood screws (4) to fasten each end of the deck reinforcement to the respective Deck Support Hanger.



Cut the Plyform Decks to fit the infill zones. The Plyform Deck must completely cover the supports in the infill zone. The Plyform Deck has to rest on at least three sides of the zone. In infill zones larger than 20 cm, the Plyform Deck has to rest on all four sides.

- Step 5** Cut the panel to the required size.
- Step 6** Place the cut panels on the Deck Supports or deck reinforcements.

- Step 7** Secure the deck elements with countersunk screws spaced 127 mm apart.  
The following illustration shows the components as they appear when viewed from above.

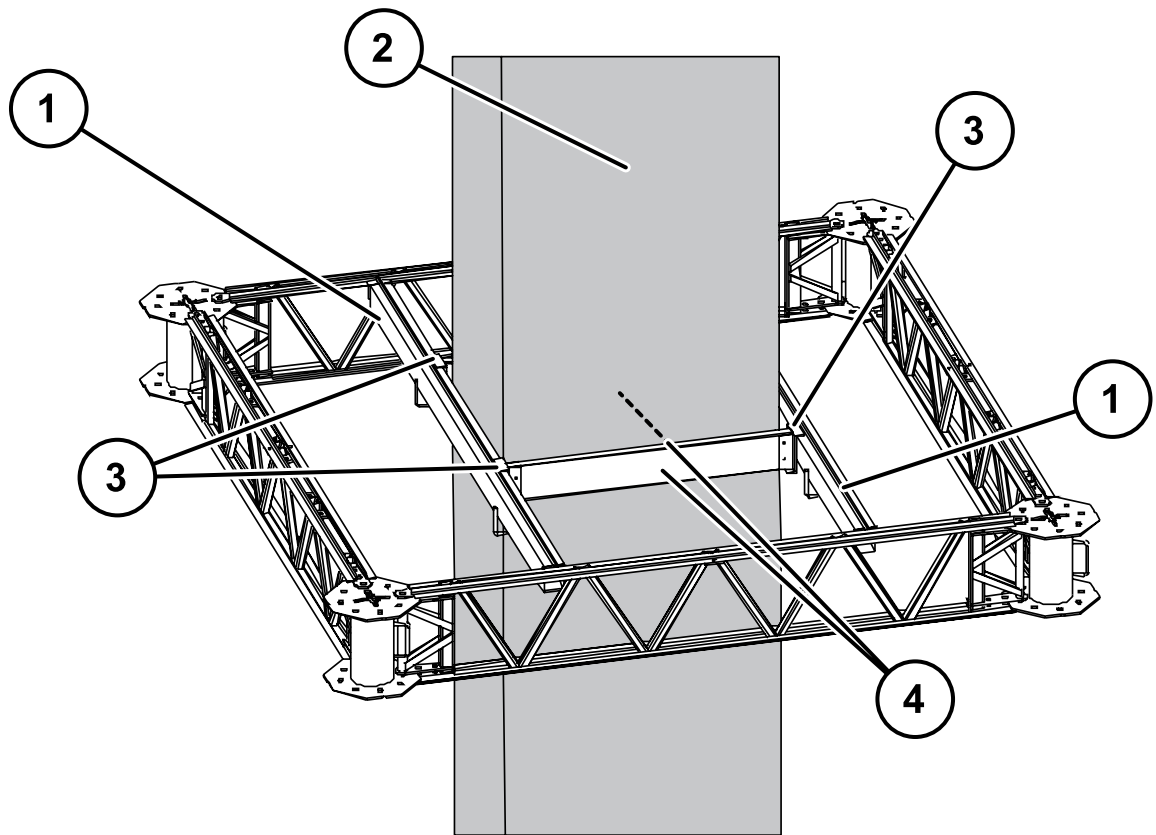


- 1 Standard grid
- 2 QD Deck Support Hanger QDDSH
- 3 Deck reinforcement, e.g. QDDSHL4
- 4 Deck element (adapted)
- 5 Secondary Deck Support (QD Deck Support without Pins) QDDSWOP
- 6 Primary Deck Support (QD Deck Support) QDDS
- 7 Obstacle

## Example 2 – Obstacle within a Quikdeck bay without grid

If the obstacle fits in a 1.20 m x 2.40 m Quikdeck field but a Deck Support will not fit in the grid, proceed as follows:

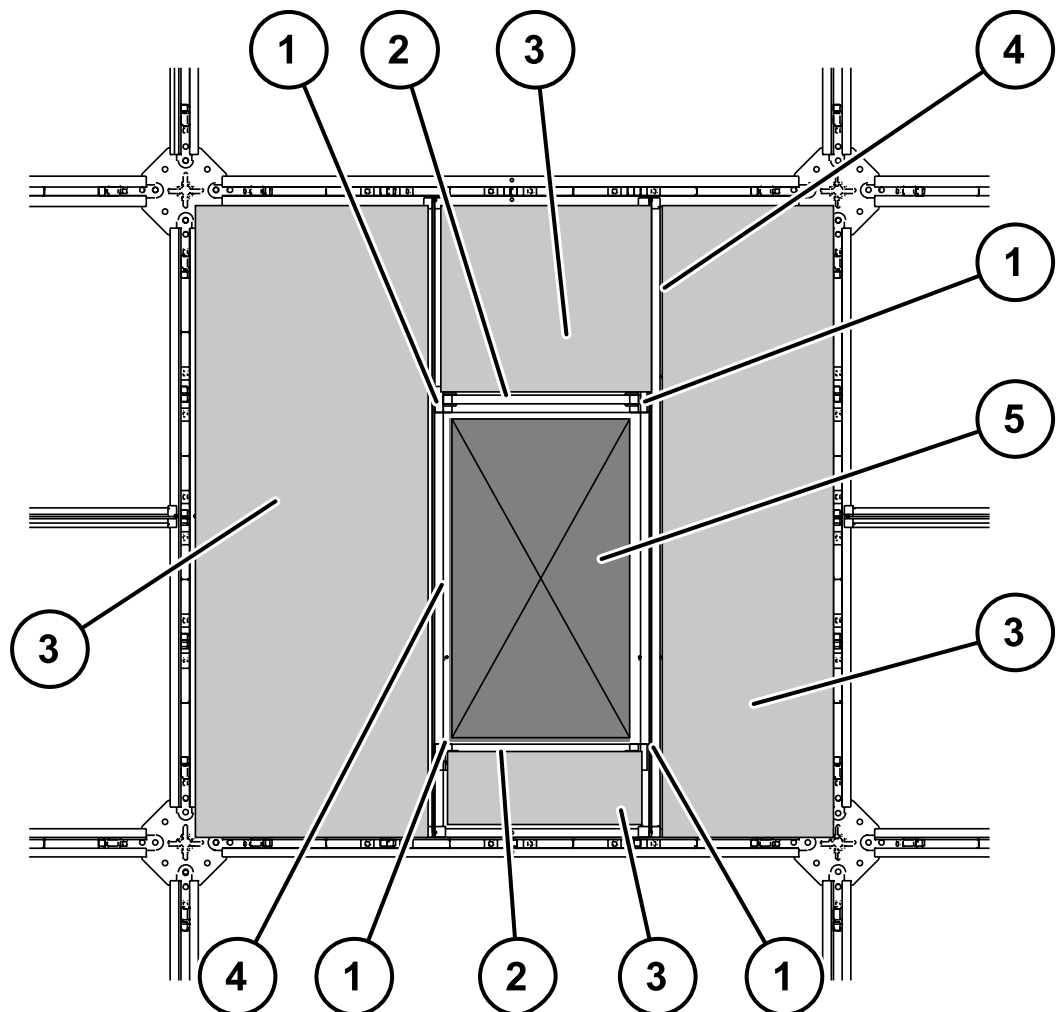
- Step 1** Attach two Deck Supports without Pins QDDSWOP (1) across from one another, as close as possible to the obstacle (2).
- Step 2** Attach two QD Deck Support Hangers QDDSH (3) on both sides, between the Deck Supports, as close as possible to the obstacle.
- Step 3** On both sides of the obstacle, attach one deck reinforcement, e.g. QDDSHL4 (4) to each Deck Support Hanger at a right angle to the Deck Supports.
- Step 4** Use two wood screws to fasten each end of the deck reinforcement to the respective Deck Support Hanger.



Cut the Plyform Decks to fit the infill zones. The Plyform Deck must completely cover the supports in the infill zone. The Plyform Deck has to rest on at least three sides of the zone. In infill zones larger than 20 cm, the Plyform Deck has to rest on all four sides.

- Step 5** Adapt deck elements to fit in the gaps.
- Step 6** Place the adapted deck elements on the Deck Supports or deck reinforcements.
- Step 7** Secure the deck elements with countersunk screws spaced 127 mm apart.

The following illustration shows the components as they appear when viewed from above.

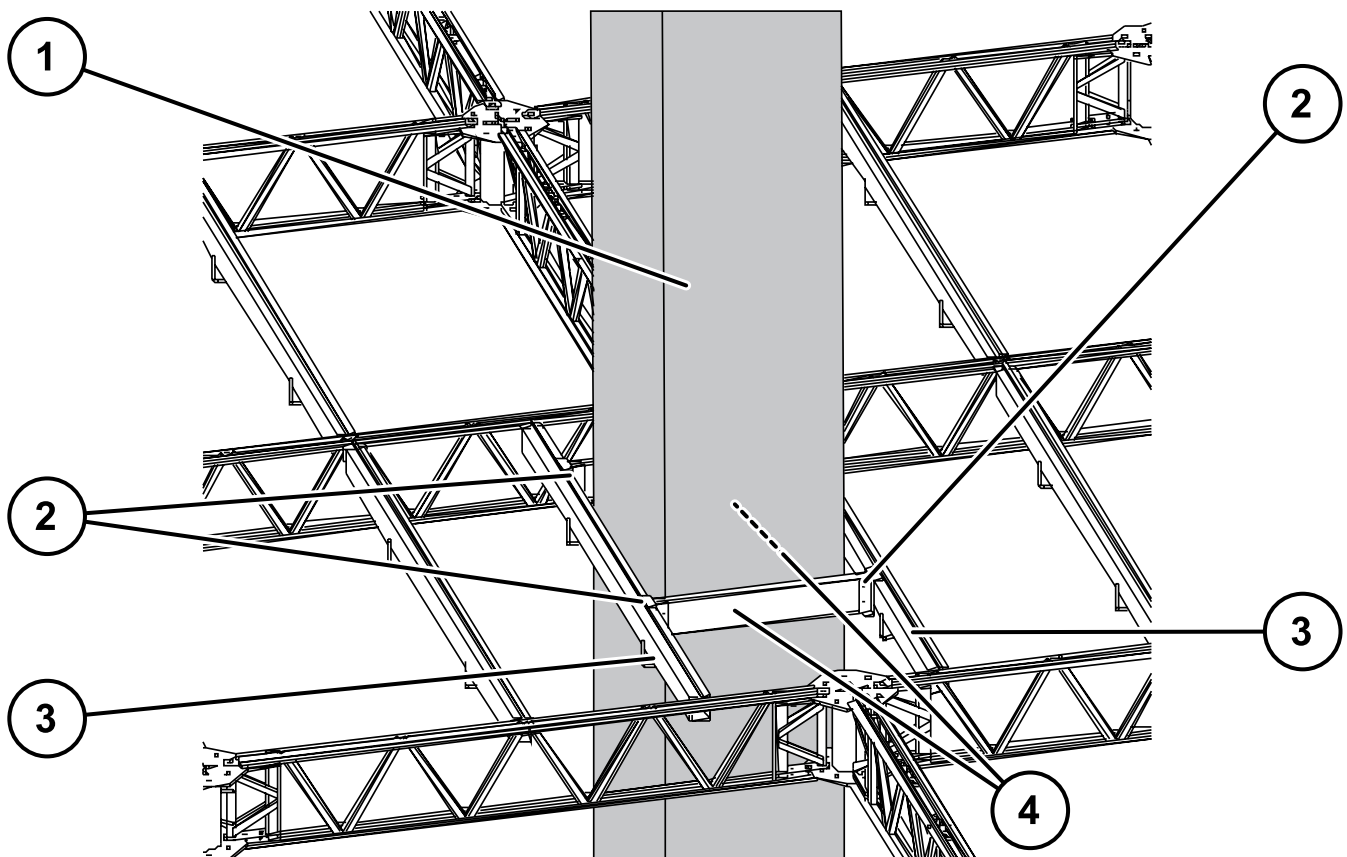


- 1 QD Deck Support Hanger QDDSH
- 2 Deck reinforcement, e.g. QDDSHL4
- 3 Deck element (infill zone)
- 4 QD Deck Support without Pins QDDSWOP
- 5 Obstacle

## Example 3 – Obstacle along the path of Joists

If the obstacle is narrower than 1.20 m and only interrupts the path of a longitudinal Joist, proceed as follows:

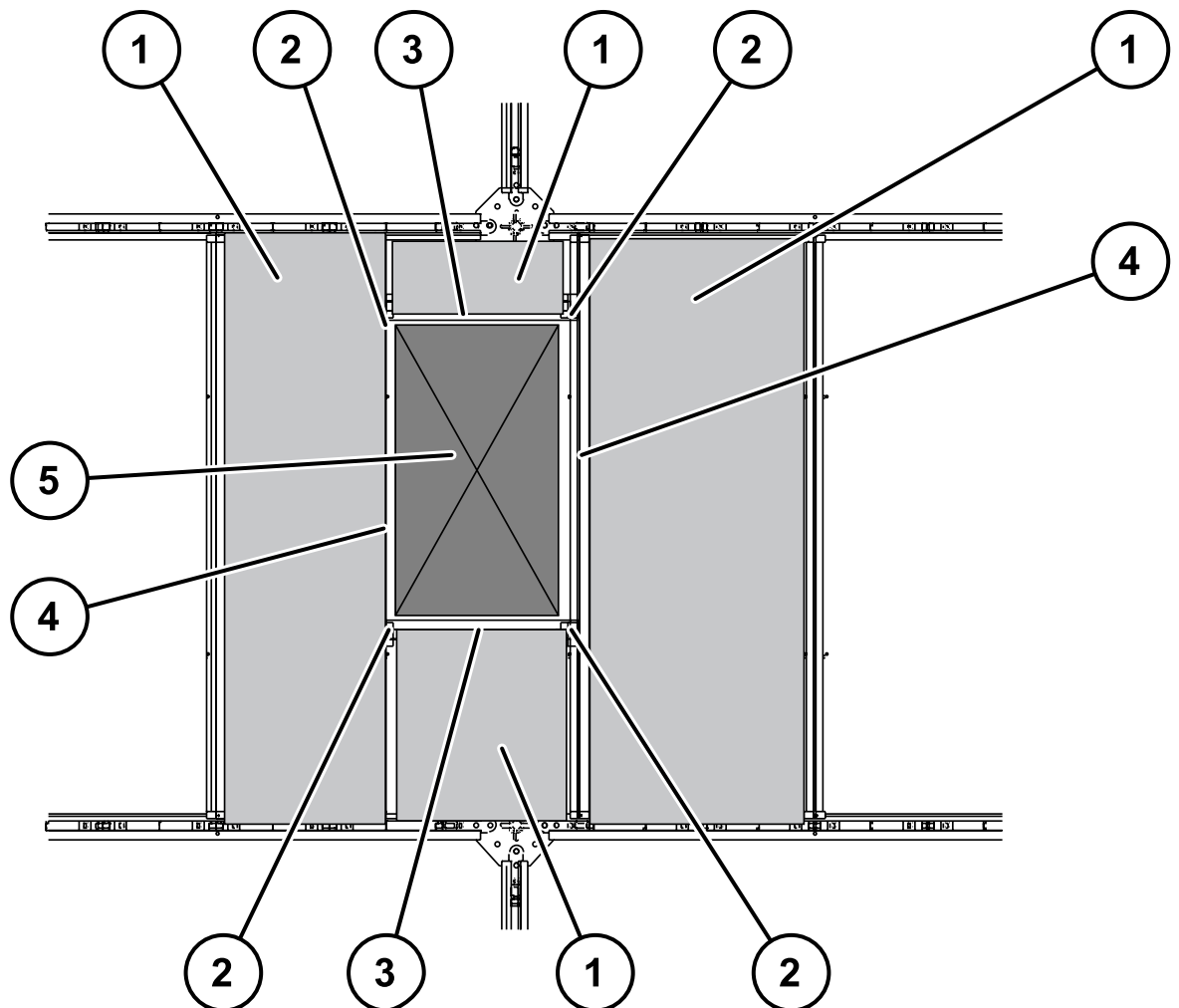
- Step 1** Attach two Deck Supports without Pins QDDSWOP (3) across from one another, as close as possible to the obstacle (1), running parallel to the interrupted Joist.
- Step 2** Attach two QD Deck Support Hangers QDDSH (2) on both sides, between the Deck Supports, as close as possible to the obstacle.
- Step 3** On both sides of the obstacle, attach one deck reinforcement, e.g. QDDSHL4 (4) to each Deck Support Hanger at a right angle to the Deck Supports.
- Step 4** Use two wood screws to fasten each end of the deck reinforcement to the respective Deck Support Hanger.



Cut the Plyform Decks to fit the infill zones. The Plyform Deck must completely cover the supports in the infill zone. The Plyform Deck has to rest on at least three sides of the zone. In infill zones larger than 20 cm, the Plyform Deck has to rest on all four sides.

- Step 5** Adapt deck elements to fit in the gaps.
- Step 6** Place the adapted deck elements on the Deck Supports or deck reinforcements.
- Step 7** Secure the deck elements with countersunk screws spaced 127 mm apart.

The following illustration shows the components as they appear when viewed from above.



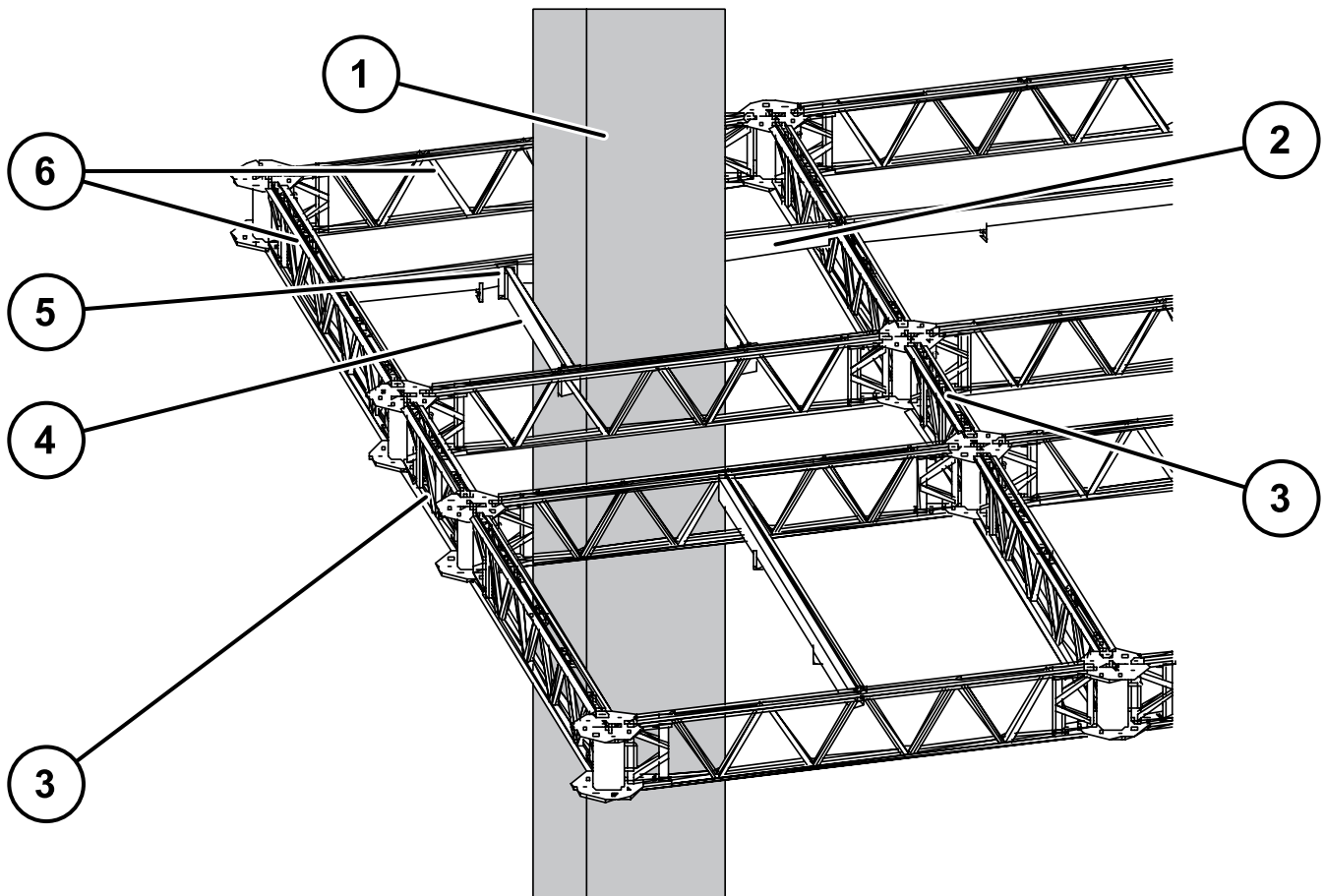
- 1 Deck element (infill zone)
- 2 QD Deck Support Hanger QDDSH
- 3 Deck reinforcement QDDSHL4
- 4 Deck Support without Pins QDDSWOP
- 5 Obstacle

## Example 4 – Obstacle in the path of Joists in multiple directions

If an obstacle interrupts multiple Joist axes, some elements of the grid have to be switched out. Always use the longest possible Joists with which a complete cross-row of Joists and Nodes can be constructed on the side facing the obstacle. Then a normal-sized grid can be built around the obstacle. The grid area around the obstacle can then be filled as shown in examples 1 to 3.

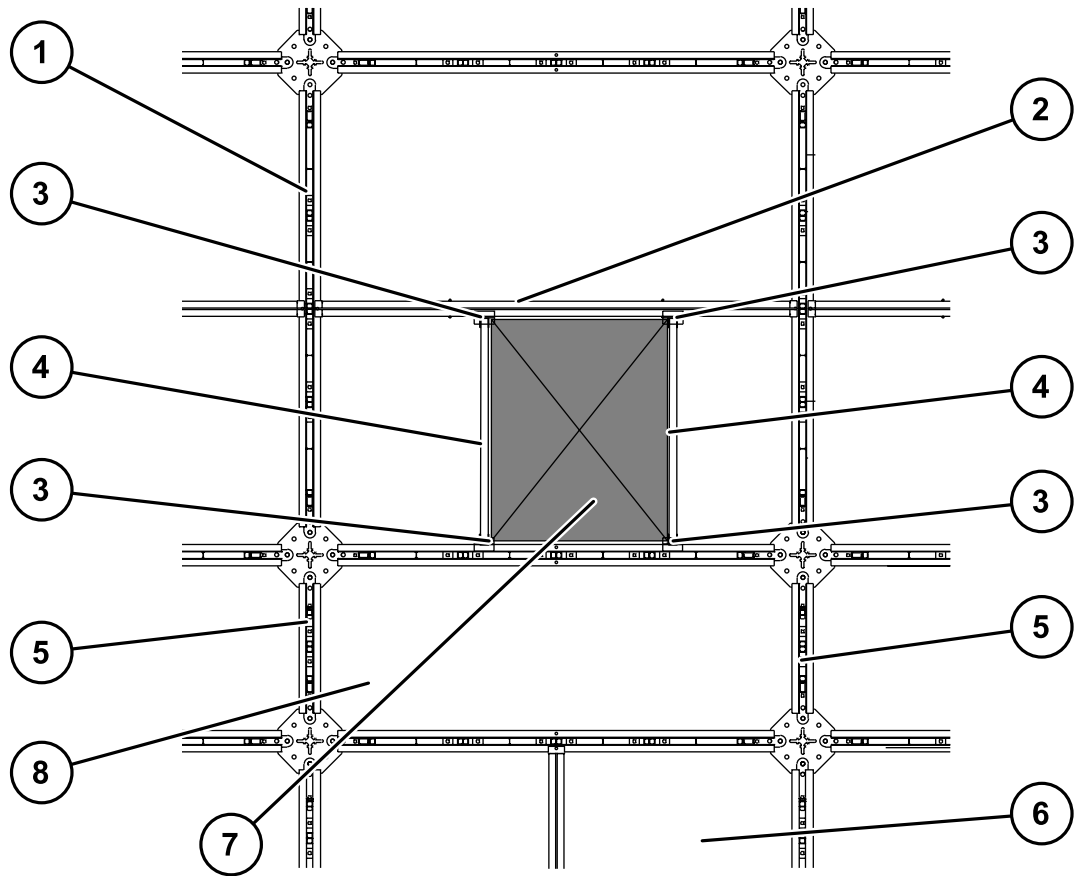
To construct the deck, saw deck elements to fit the gaps to be filled. The deck elements may not be more than 6.3 mm smaller than the area to be filled. They have to rest on Deck Supports or deck reinforcements on at least three sides. Deck elements larger than 0.18 m have to be supported on all four sides.

- Step 1** Construct grids with short Joists (3) lengthwise before the obstacle (1).
- Step 2** Use QD Joists 8' (6) to build a grid around the obstacle.
- Step 3** Construct a frame made of Deck Supports without Pins QDDWOP (2), QD Deck Support Hangers QDDSH (5) and deck reinforcement, e.g. QDDSHL4 (4) as close to the obstacle as possible.
- Step 4** Use two stainless steel wood screws #10 x 1 to fasten the ends of the deck reinforcements to the respective Deck Support Hanger.
- Step 5** Adapt deck elements to fit in the gaps.
- Step 6** Place the adapted deck elements on the Deck Supports or deck reinforcements.
- Step 7** Use countersunk screws spaced 127 mm apart to secure the deck elements.



The following illustration shows the components as they appear when viewed from

above. The deck elements are not shown here.

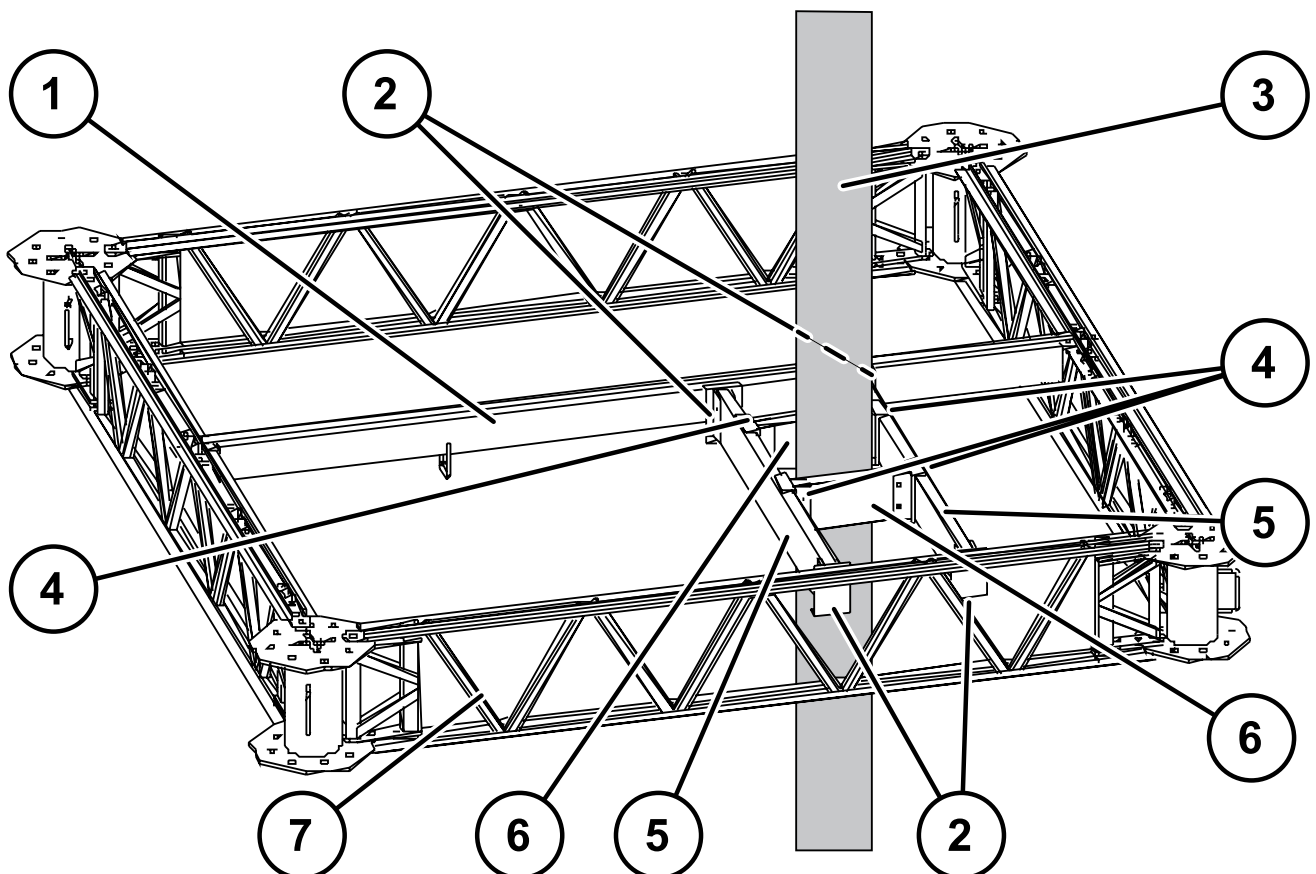


- 1 Joist QDJxx
- 2 QD Deck Support without Pins QDDSWOP
- 3 QD Deck Support Hanger QDDSH
- 4 Deck reinforcement, e.g. QDDSHL4
- 5 Short Joist QDJ
- 6 Standard grid
- 7 Obstacle
- 8 Shortened grid

## Example 5 – Small obstacle, completely within a panel

Two deck reinforcements QDDSHL4 cut to the required size can be used for obstacles less than 0.15 m wide, e.g. pipes. Four deck reinforcements QDDSHL4 are needed for obstacles more than 0.15 m wide.

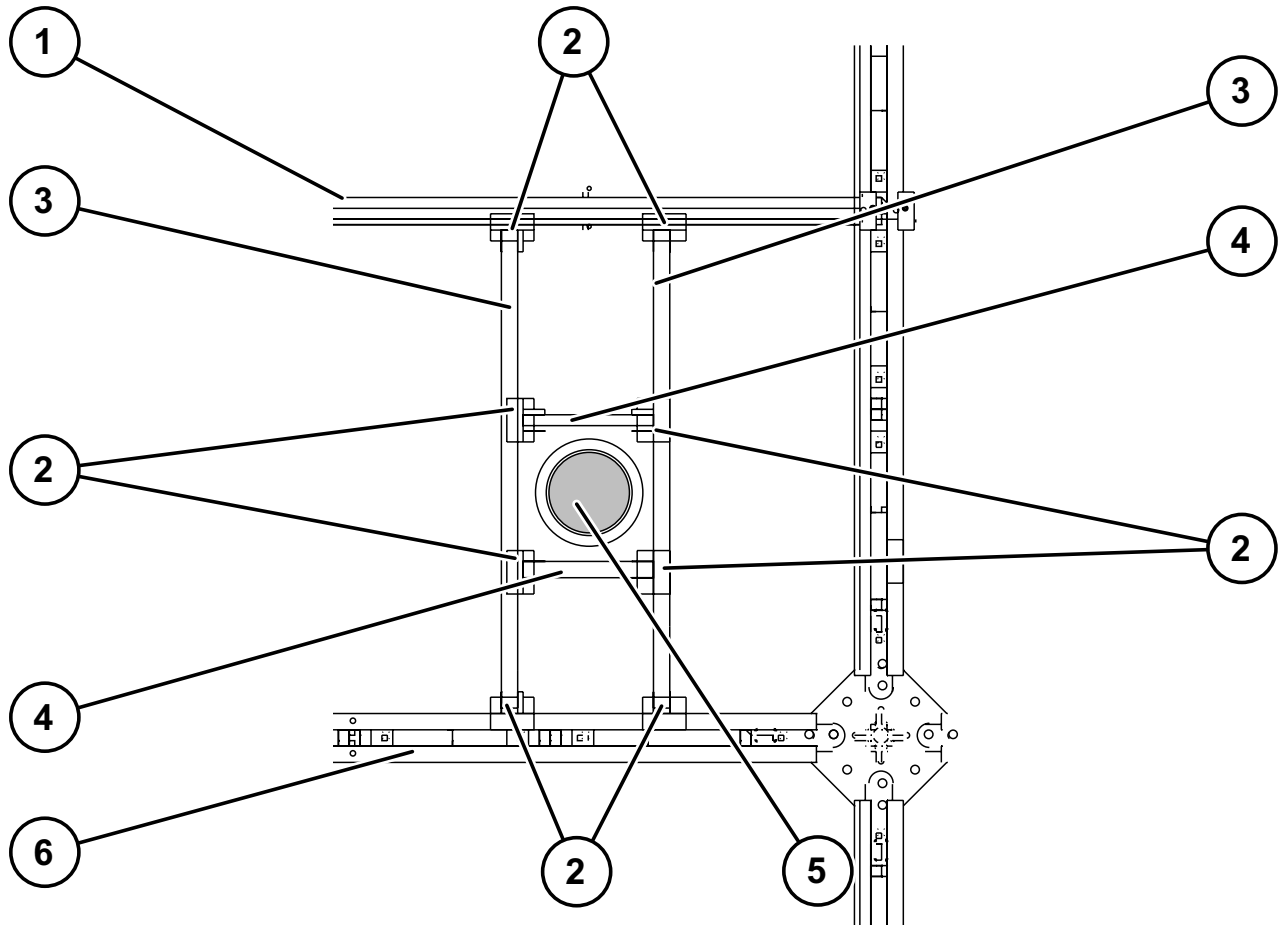
- Step 1** Attach two QD Deck Support Hangers QDDSH (2), 51 mm x 152 mm to the Joist (7) and to the Deck Support QDDS (1) on each side, as close as possible to the obstacle.
- Step 2** Attach two deck reinforcements, e.g. QDDSHL4 (5) to the Deck Support Hangers (2) across from one another, as close as possible to the obstacle (3).
- Step 3** Use two stainless steel wood screws 10 x 1 to fasten the ends of the deck reinforcement to the respective Deck Support Hangers.  
If the obstacle is wider than 0.15 m, perform steps 4 and 5. If not, cut the deck to the proper size and install it as described beginning with step 7.
- Step 4** Attach two Deck Support Hangers QDDSH (4), 51 mm x 152 mm to the deck reinforcements (5) on each side, as close as possible to the obstacle.
- Step 5** On both sides of the obstacle, attach one deck reinforcement, e.g. QDDSHL4 (6), cut to the required size, to each Deck Support Hanger (4) at a right angle to the Deck Supports.
- Step 6** Use two stainless steel wood screws #10 x 1 to fasten the ends of the reinforcements to the respective Deck Support Hanger.



To construct the deck, saw deck elements to fit the gaps to be filled. The deck elements may not be more than 6.3 mm smaller than the area to be filled. They have to rest on Deck Supports or deck reinforcements on at least three sides. Deck elements larger than 0.18 m have to be supported on all four sides.

- Step 7** Adapt deck elements to fit in the gaps.
- Step 8** Place the adapted deck elements on the Deck Supports or deck reinforcements.
- Step 9** Secure the deck elements with countersunk screws spaced 127 mm apart.

The following illustration shows the components when viewed from above when there is an obstacle within a grid. In this case the obstacle has to be secured on both sides with one deck reinforcement QDDSHL4 each.

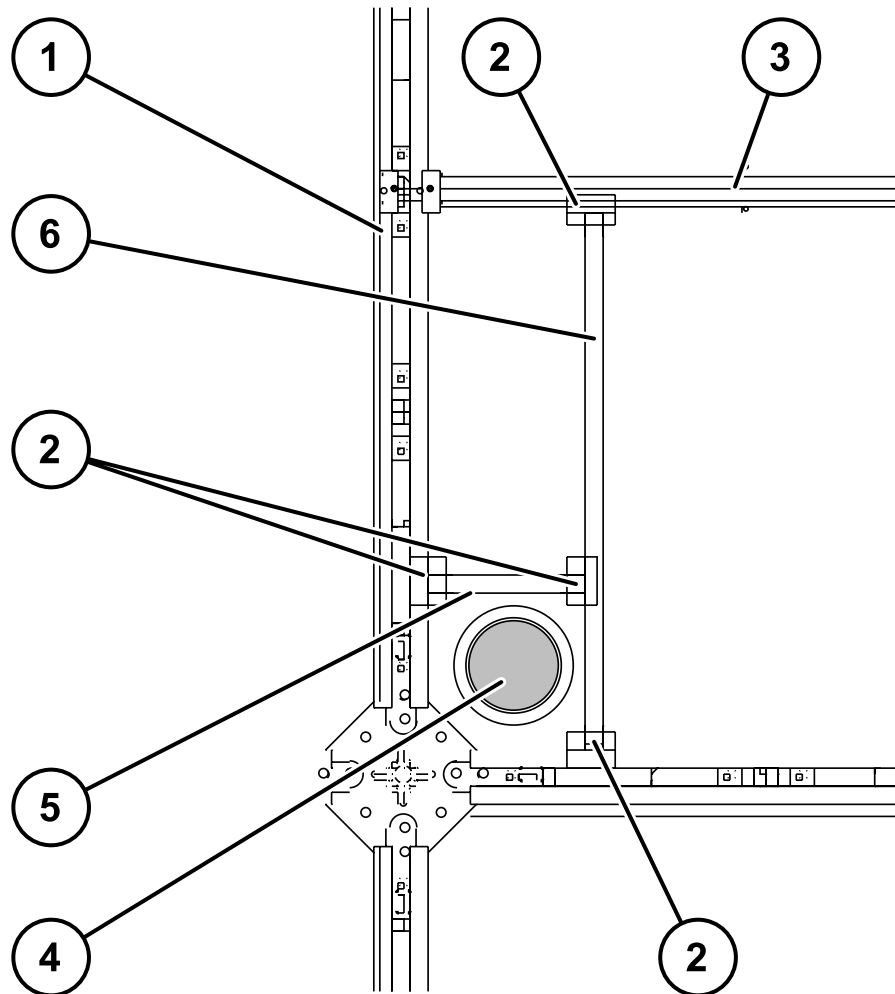


- 1 QD Deck Support QDDS
- 2 QD Deck Support Hanger QDDSH
- 3 Deck reinforcement (long), e.g. QDDSHL4
- 4 Deck reinforcement (short), e.g. QDDSHL4
- 5 Obstacle
- 6 Joist 8' QDJ

The decks have been omitted in the illustration for a clearer understanding.

The following illustration shows the components when viewed from above when there

is an obstacle at the edge of a grid. In this case the obstacle only has to be secured on one side with a deck reinforcement QDDSHL4.



- 1 Joist 8' QDJ
- 2 QD Deck Support Hanger QDDSH
- 3 QD Deck Support QDDS
- 4 Obstacle
- 5 Deck reinforcement (short), e.g. QDDSHL4
- 6 Deck reinforcement (long), e.g. QDDSHL4

The deck elements have been omitted in the illustration for a clearer understanding.

## 8.9.5 Using Screw Jacks with Base Plates

Screw Jacks with Base Plates are used to level the starter platform.

- Step 1** Place the Adapter QDBJA for Screw Jacks on Screw Jack AL1 or AL1S.
- Step 2** Place Nodes on each of the Screw Jack Adapters.
- Step 3** Align the starter platform horizontally using the Screw Jacks.

## 9 Notes on use

### 9.1 Relocating platform

The Quikdeck modular concept allows sections of the platform to be shifted to where they are needed. When work is completed in an area, that section can be disassembled and moved to an area where work is to continue. This allows the size of the platform to be kept to a minimum. And it also minimizes the amount of materials needed as well as the strain imposed on the load-bearing structure.

To relocate single sections of Quikdeck, proceed as follows:

- Step 1** Disassemble the respective bays as described beginning on page 122.
- Step 2** Use the components to assemble the new bays where they are needed; refer to the instructions beginning on page 85.

### 9.2 Checking condition of platform

- Step 1** Check the platform for the following every day:
  - Condition of wire rope clips
  - Condition of suspender connections
  - Condition of suspension chains
  - Condition of fasteners on the load-bearing structure
  - Firm seating of mounting parts
  - Condition of deck

Notes on how to properly inspect the equipment can be found beginning on page 11.

- Step 2** Also check the following regularly:
  - Excessive deflection of load-bearing parts
  - Actual loads imposed on the platform

The frequency of regular inspections depends on local regulations and particularly on the strain and other factors at the specific site. It must be specified by the operator in the assembly instructions.

The inspections have to be performed by properly qualified personnel. Information on the qualifications required can be found beginning on page 12.

Proceed as follows when damage is identified:

- Step 1** Immediately report damage to the construction supervisor.
- Step 2** If necessary, evacuate the platform and secure the area below the platform.
- Step 3** Remove all materials from the vicinity of the damaged component.
- Step 4** Replace damaged components with serviceable ones of the same type.
- Step 5** Have damaged components repaired (Refer to page 128) or dispose of them properly.
- Step 6** Determine the cause of the damage and remedy it if possible.

### 9.3 Using scaffolds on Quikdeck

Scaffolds can be erected on Quikdeck if the load capacity is not exceeded. Verify that the requirements specified in the section beginning on page 132 are met and the safe working loads are complied with.



### WARNING

#### Risk of collapse and of serious injury!

Point loads applied to the Quikdeck, a scaffold for example, require a double layer of plywood to prevent damage to the decking.

#### Avoiding damage to decking panels

Damage to the panels can diminish the load rating. This can lead to persons or objects falling from the platform. Damage to the decking panels can be caused particularly by:

- Impact loads
- Jumping
- Improper handling
- Improper installation
- Misuse
- Overloading
- Chemicals
- Heat
- Decay
- Improper storage

**Step 1** Replace damaged panels with serviceable ones of the same type and dimensions.

#### 9.3.1 Overloading decking panels

Panels can be damaged if objects are dropped or thrown onto the platform. If decking panels deflect significantly or make cracking noises, they are overloaded. Overloaded panels can break and cause persons or objects to fall.

**Step 1** Prevent overloading as follows:

- Place loads on the platform gently and slowly.
- Use mechanical lifting gear to place loads only in areas approved for load class 4.
- Do not jump or hop on decking panels.

#### 9.3.2 Improper handling

Improper use or handling of decking panels can result in damage.

**Step 1** Comply with these points when handling decking panels:

- Remove and store panels in an orderly manner.
- Use corner protection when moving panels.
- Do not tilt or throw panels.
- Do not push panels.

#### 9.3.3 Misuse

Using decking panels for any other purpose than the intended can cause damage.

**Step 1** Use panels only as described in this document.

#### 9.3.4 Improper installation

Decking panels that are not installed and secured properly have a diminished safe working load.

**Step 1** Attach the panels only as described in this user guide.

**Step 2** If necessary, use additional fasteners in special cases.

### 9.3.5 Decay

Decayed decking panels have a significantly diminished safe working load.

- Step 1** Comply with these points when handling decking panels:
- Keep panels dry.
  - Never use panels that are visibly decaying.
  - Store panels in a place with adequate air circulation.

### 9.3.6 Improper storage

Decking panels that are not stored properly can become unusable.

- Step 1** Comply with these points when handling decking panels:
- Store decking panels properly.
  - Always inspect the panels for damage before using them.

#### TIP

Notes on how to properly store decking panels can be found beginning on page 126.

### 9.3.7 Chemicals

Wood is susceptible to chemical influences. The Material Safety Data Sheets for chemicals that may come into contact with the panels contain information on the effects of the chemicals on the panels.

- Step 1** Determine the risk of degradation by the chemicals based on the Material Safety Data Sheets.
- Step 2** Do not expose panels to decomposing chemicals.

### 9.3.8 Heat

Wood is sensitive to heat.

- Step 1** Do not expose decking panels to temperatures over 65° C (150° F).

## 10 Disassembling the platform

Disassemble in the reverse order of assembly. Disassemble the platform beginning at the outer edge and working inwards. When disassembling, be sure not to exceed the maximum safe working loads and cantilever distances.

### 10.1 Preparing for disassembly



#### DANGER

##### **Risk of fatal injuries if components are attached incorrectly!**

Incorrectly installed components can cause the load limits to be exceeded during disassembly.

- Verify that all components are installed correctly.
- Ensure that the load ratings of the individual components are not exceeded.
- Do not exceed the operation limits of the individual components.

- Step 1** Check that all suspenders are tensed.
- Step 2** Verify that the platform has not been modified.  
If necessary, add components or re-install parts of the platform.
- Step 3** Determine a temporary storage place for removed components and prepare the place accordingly, if necessary.
- Step 4** Have the proper tools, hoisting equipment and material on hand.  
Analogue to the starter platform, the ending platform is the last part to be dismantled.
- Step 5** Specify which platform is to be the ending platform.  
The following tools are needed:
- QD Pin Extractor to remove the Node Pin
  - QD Tool Hoist with Load Limiter to tense chains when changing suspension chains to hoisting chains
  - Cordless screwdriver with  $\frac{9}{16}$ " socket wrench to release screw connections

### 10.2 Disassembling the platform



#### DANGER

##### **Risk of fatal injury if Quikdeck is disassembled incorrectly!**

Incorrect disassembly of components can lead to a risk of falling due to component failure.

- Remove all components only as described and shown in this user guide.
- Follow the same safety procedures as when assembling Quikdeck.
- Ensure that the load ratings of the individual components are not exceeded.
- Secure detached components to prevent them from falling.
- Observe and follow all legal regulations and other directives applicable at the place of use as well as the operator's assembly instructions.
- Ensure that only suitably qualified persons disassemble Quikdeck.
- Ensure that all persons working or standing on Quikdeck use suitable personal fall protection.



#### DANGER

##### **Risk of fatal injury in the event of falling from Quikdeck due to missing components or mounting parts!**

Missing mounting parts may cause Quikdeck to fall due to a diminished load rating.

- Ensure that all persons working or standing on Quikdeck use suitable personal fall protection attached to the load-bearing structure.
- Ensure that the platform cannot overturn during disassembly.
- Secure detached components to prevent them from falling.

Information on suitable fall protection can be found in the section “Personal protective equipment,” beginning on page 12.



## DANGER

### **Risk of fatal injury in the event of falling from Quikdeck due to lack of personal fall protection!**

A guard rail or other fall protection attached to Quikdeck may exceed the load limits of Quikdeck.

- Anyone entering an area of the Quikdeck system that is not properly secured with complete guard rails must use additional and separate fall protection to prevent falling from the platform.
- Attach the personal fall protection (harness) to structures that are independent of Quikdeck.
- Ensure that, when the wind speed creates a velocity pressure greater than 0.2 kN/m<sup>2</sup> (18 km/h), no one is permitted to work on or near Quikdeck.



## WARNING

### **Risk of serious and fatal injury from falling objects!**

Components that are not properly secured or material stored on Quikdeck may fall off and cause serious injury.

- Secure detached components to prevent them from rolling or falling off the platform.
- Store materials only in areas of Quikdeck intended for this purpose.
- Properly secure material stored on Quikdeck.
- Verify that no innocent bystanders are standing under Quikdeck.
- Ensure that all persons standing on and under Quikdeck are wearing hard hats.

Illustrations indicating where material can safely be stored on Quikdeck can be found beginning on page 35.

Disassemble the platform in the reverse order of assembly:

- Remove optional components
- Release suspenders
- Remove Toe Boards and corner infills
- Remove guard rails
- Remove decking panels
- Remove Deck Supports
- Remove Joists and Nodes

### **10.2.1 Removing optional components**

If any optional components were used, they have to be removed from the platform first. These could be e.g. Screw Jacks or hoppers. Optional components that serve as the platform structure or as suspenders have to remain in place until their purpose becomes obsolete.

**Step 1** Remove optional components.

### **10.2.2 Releasing suspenders**



## DANGER

### **Risk of fatal injury if Quikdeck is disassembled incorrectly!**

Incorrect disassembly of components can lead to a risk of falling due to component failure.

- Remove all components only as described and shown in this user guide.
- Follow the same safety procedures as when assembling Quikdeck.
- Ensure that the load rating of the individual components is not exceeded.
- Ensure that the maximum cantilever distance permitted is not exceeded.

Remove the suspension components while always ensuring that parts of the platform

# Disassembling the platform

never cantilever too far.

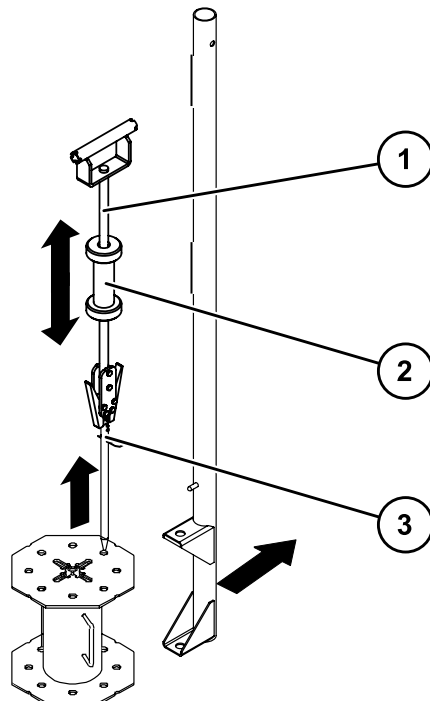
- Step 1** Attach the hoisting chains and Hoist securely to the platform.
- Step 2** Tense the hoisting chains such that the platform load is transferred to the hoisting chains.
- Step 3** Remove the Wire Ties.
- Step 4** Remove the chain retainer.
- Step 5** Release the suspension chain.

## 10.2.3 Removing Toe Boards and corner infills

- Step 1** Remove all screws from the Cage Nuts on the Joists.
- Step 2** Detach the Toe Boards.
- Step 3** Remove the corner infills.
- Step 4** Secure all detached parts to prevent them rolling or falling off the platform, or move them from the platform to the designated storage area.

## 10.2.4 Removing guard rails

- Step 1** Release the Rigid Couplers and remove the Scaffold Tubes.
- Step 2** Pull the spring pin out of the Node Pin on the Railing Post.
- Step 3** If the Node Pin is stuck, push the Pin Extractor QDTE (1) onto the Node Pin (3) from above until it locks into place.
- Step 4** Move the grip (2) until the Node Pin comes loose.
- Step 5** Remove the Node Pin.



- Step 6** Remove the Railing Post.
- Step 7** Secure all detached parts to prevent them rolling or falling off the platform, or move them from the platform to the designated storage area.

## 10.2.5 Removing additional wind bracing and fasteners from platform

If additional bracing was installed to protect the platform from wind force or other vertical loads, it has to be removed. Proceed in the reverse order of assembly.

### 10.2.6 Removing decking panels



#### DANGER

**Risk of fatal injury in the event of falling from Quikdeck due to lack of decking panels!**

- All persons on the platform must use personal fall protection.
- Attach the personal fall protection (harness) to structures that are independent of Quikdeck.
- Remove only the panels for the grid to be dismantled.

- Step 1** Remove the screws from all of the Deck Retainers.
- Step 2** Detach all of the Deck Retainers.
- Step 3** Remove the decking panel.
- Step 4** Secure all detached parts to prevent them rolling or falling off the platform, or move them from the platform to the designated storage area.

### 10.2.7 Removing Deck Supports

- Step 1** Remove any screw connections from the Deck Supports or deck reinforcements.
- Step 2** Remove Deck Supports.
- Step 3** Secure all detached parts to prevent them rolling or falling off the platform, or move them from the platform to the designated storage area.

### 10.2.8 Removing Joists and Nodes



#### DANGER

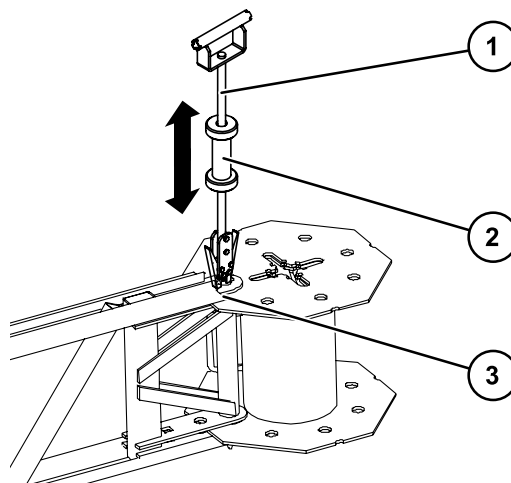
**Risk of fatal injury if Quikdeck is disassembled incorrectly!**

Incorrect disassembly of components can lead to a risk of falling due to component failure.

- Remove all components only as described and shown in this user guide.
- Follow the same safety procedures as when assembling Quikdeck.
- Ensure that the load ratings of the individual components are not exceeded.
- Ensure that the maximum cantilever distance permitted is not exceeded.

Remove the suspenders while always ensuring that parts of the platform never cantilever too far. Disassemble the grids individually, one after the other.

- Step 1** If the Node Pin is stuck, push the Pin Extractor QDTE (1) onto the Node Pin (3) from above until it locks into place.
- Step 2** Move the grip (2) until the Node Pin comes loose.
- Step 3** Remove the Node Pin.



- Step 4** Detach the Node from the Joist.

10.2.9 Disassembling entire platform down to ending platform

Analogue to the starter platform, the last section of the platform is lowered all the way to the ground and disassembled there. This section is called the “ending platform.”

- Step 1** Repeat all the steps in the previous sections for the remaining grids, until only the ending platform is left.

10.2.10 Lowering ending platform

Analogue to the starter platform, the last section of the platform is lowered all the way to the ground and disassembled there. This section is called the “ending platform.”

- Step 1** Check that there is a sufficiently large, sturdy and level surface below the ending platform.
- Step 2** Lower the ending platform by reversing the steps for raising the starter platform beginning on page 76.
- Step 3** Disassemble the lowered ending platform by reversing the assembly steps.

10.3 Verifying all parts are in serviceable condition

- Step 1** Check all detached parts for damage as they are detached.
- Step 2** Repair damaged parts.
- Step 3** Sort out parts intended to be used only once and components that cannot be repaired.
- Step 4** Dispose of discarded parts as specified by local regulations.

11 Storing components

11.1 Storing components ready for use

**DANGER**

**Risk of fatal injury from using damaged or unsuitable components!**

Damaged components may result in a diminished load rating or failure of Quikdeck components.

- Check that all stored components are in serviceable condition at the specified intervals.
- Do not use damaged or unsuitable components.
- Contact HÜNNEBECK if there are any doubts about potentially harmful factors.
- Repair damaged components immediately or replace damaged components with new ones of the same type.
- Dispose of damaged components that cannot be repaired.

- Step 1** Immediately store separately components ready to be used again and damaged or worn components.
- Step 2** Clean and dry components before placing them in storage.

**Notes on storing decking panels**

Proper storage of decking panels prevents damage and decay.

- Step 1** Store stacked decking panels such that there is at least 1.8 cm between the layers.
- Step 2** Place boards or pallets on the ground, under the stacks of panels.
- Step 3** Properly secure stacks of panels to prevent them from overturning.

## 11.2 Storing damaged components



### DANGER

#### Risk of fatal injury from using damaged or unsuitable components!

Damaged components may result in a diminished load rating or failure of Quikdeck components.

- Do not use damaged or unsuitable components.
- Contact HÜNNEBECK if there are any doubts about potentially harmful factors.
- Repair damaged components immediately or replace damaged components with new ones of the same type.
- Dispose of damaged components that cannot be repaired.

**Step 1** As soon as damage or wear is detected, label the components clearly to indicate this.

### TIP

One way to clearly indicate the state of the components is to mark the connectors of the damaged components with a set colour.

**Step 2** Store worn or damaged parts separately from the other components, as described in the previous section.

**Step 3** Properly dispose of parts that cannot be repaired as specified by local regulations.

## 11.3 Having damaged components repaired



### DANGER

#### Risk of fatal injury from using damaged or unsuitable components!

Damaged components may result in a diminished load rating or failure of Quikdeck components.

- Do not use damaged or unsuitable components.
- Contact HÜNNEBECK if there are any doubts about potentially harmful factors.
- Have damaged components repaired immediately.
- Replace damaged components with new ones of the same type.
- Dispose of damaged components that cannot be repaired.

**Step 1** Have damaged or worn components repaired by HÜNNEBECK.

### TIP

Contact HÜNNEBECK if there are any doubts about the required qualifications or repair work.

## 12 Maintenance and upkeep

### 12.1 Maintenance schedule

The information in this section applies only to components supplied by HÜNNEBECK. When components supplied by other manufacturers are used, refer to the respective operating instructions for information on maintenance tasks.

#### 12.1.1 Checking before use

- Step 1** Check all components intended to be used to verify that they are in serviceable condition:
- Serviceable condition
  - No corrosion
  - Any damage
- Step 2** Replace any components that are not serviceable with serviceable components of the same type.
- Step 3** Repair damaged or worn components.
- Step 4** Properly dispose of components that cannot be repaired.

#### 12.1.2 Daily inspection

Excessive deflection is a clear indication that the platform is overloaded.

Have qualified persons regularly check the load imposed on the platform.

If the load is excessive, proceed as follows:

- Step 1** Evacuate the platform.
- Step 2** Secure the area under the platform.
- Step 3** Remove loads from the platform.
- Step 4** Inspect all load-bearing elements for damage.
- Step 5** Replace damaged or worn components with serviceable ones of the same type.

Check the platform for the following every day:

- Personnel should check the loads stored on the platform regularly and correct if necessary.
- Condition of wire rope clips
- Condition of suspender connections
- Condition of suspension chains
- Condition of fasteners on the load-bearing structure
- Firm seating of mounting parts
- Condition of deck

- Step 6** Replace any components that are not serviceable with serviceable components of the same type.
- Step 7** Repair damaged or worn components.
- Step 8** Properly dispose of components that cannot be repaired.

#### 12.1.3 Weekly inspection

- Step 1** In addition to daily inspection, check all load-bearing elements of the platform as well as the load-bearing structure every week:

- Serviceable condition
- No corrosion
- Any damage

- Step 2** Replace any components that are not serviceable with serviceable components of the same type.
- Step 3** Repair damaged or worn components.
- Step 4** Properly dispose of components that cannot be repaired.

#### 12.1.4 Checking after use

- Step 1** Check all removed/dismantled components to verify that they are in serviceable condition:
- Serviceable condition
  - No corrosion
  - Any damage
- Step 2** Replace any components that are not serviceable with serviceable components of the same type.
- Step 3** Repair damaged or worn components.
- Step 4** Properly store usable parts as described beginning on page 126.
- Step 5** Properly dispose of components that cannot be repaired.

#### 12.1.5 Checking while in storage

- Step 1** Inspect the components regularly as a factor of the storage conditions:
- No corrosion
  - Dampness and decay
- Step 2** Repair damaged or worn components.
- Step 3** Properly store usable parts as described beginning on page 126.
- Step 4** Properly dispose of components that cannot be repaired.

## 12.2 Performing maintenance

### 12.2.1 Checking platform for overloading

Excessive deflection is a clear indication that the platform is overloaded.

Have qualified persons regularly check the load imposed on the platform.

If the load is excessive, proceed as follows:

- Step 5** Evacuate the platform.
- Step 6** Secure the area under the platform.
- Step 7** Remove loads from the platform.
- Step 8** Inspect all load-bearing elements for damage.
- Step 9** Replace damaged or worn components with serviceable ones of the same type.

### 12.2.2 Checking condition of wire rope clips

- Step 1** Inspect all wire rope clips to verify correct torque as specified by the respective manufacturer.
- Step 2** Tighten the wire rope clips if necessary.

## 12.2.3 Checking condition of suspender connections

Inspect all platform and suspender connections to verify that they are in good working condition and in the correct position.

- Step 1** Start the inspection with the beam clamp connections to the load-bearing elements.
- Step 2** Then examine the chains leading from the beam clamps to the Nodes.
- Step 3** Ensure that the chain retainers are installed properly and held in place with Wire Ties.

## 12.2.4 Checking condition of suspension chains

- Step 1** Inspect the suspension chains as specified by EN 473, checking for the following:
  - Twisting
  - Bending
  - Irregularities
  - Stretching
  - Signs of wear
  - Have the suspension chains been exposed to heat or fire?
- Step 2** Replace the suspension chains if necessary.

## 12.2.5 Checking condition of fasteners on the load-bearing structure

- Step 1** Check all fasteners and connections to the load-bearing structure for the following:
  - Missing bolts
  - Missing or loose fasteners
  - Missing or loose suspension chains
- Step 2** Properly secure/tighten connections if necessary.
- Step 3** Tighten suspension chains if necessary.
- Step 4** Replace missing suspenders or connecting parts if necessary.

## 12.2.6 Checking condition of decking

Damaged decking can fail under load, causing death, injury or property damage. Proper handling and inspection are imperative to safe use.

Damage and defects can be recognised particularly by these properties:

### Damage

Some common types of damage to decking panels are:

- Noticeable changes in the stability and stiffness
- Discolouration caused by decay, high temperature or chemical influences
- Visible signs of rot or fungus
- Broken or splintered lamination
- Unusual odour
- Cracks

- Step 1** Replace damaged panels with serviceable ones of the same type and dimensions.

### Dirt

Dirt or accumulated layers of paint, concrete or other substances can collect on the decking panels and prevent proper inspection.

- Step 1** Thoroughly clean dirty decking panels.

- Step 2** Check the panels for damage caused by other factors.
- Step 3** Replace panels that cannot be cleaned with serviceable ones of the same type and dimensions.
- Step 4** Replace damaged or decayed panels with serviceable ones of the same type and dimensions.

#### **Improper handling**

Damage caused by incorrect handling greatly reduces the load-bearing capacity of the decking panels. Examples of incorrect handling include:

- Saw cuts
- Drilled holes
- Notches
- Gouges deeper than 1.5 mm
- Irregularities and dents

- Step 1** Replace decking panels damaged by improper handling with serviceable ones of the same type and dimensions.

#### **Other causes and combination of causes**

Splitting or cracking in the decking panels are common indications of damage from other causes. Splits or cracks are separations that extend through the decking panel, from one face to another.

Delamination is another indication of damaged decking panels. Delamination is a split between the wood layers along the edge of a decking panel. Delamination can be caused by overloading, mechanical damage, decay or chemical influences. Delaminating layers that run diagonally across adjacent veneers may have been caused by overloading. Delaminating layers caused by overloading are likely to be accompanied by face breaks.

- Step 1** Replace damaged panels with serviceable ones of the same type and dimensions.

### **12.2.7 Checking other components to verify serviceable condition**

#### **Checking for excessive deflection**

Excessive deflection or other damage is a clear indication of overloading. This is why it is important to regularly inspect the platform and its components, checking for damage or excessive deflection.

Examine all Nodes, Joists and Beam Clamp Tubes for deformation of bores, bending or excessive deflection.

If deflection is excessive, proceed as follows:

- Step 1** Immediately evacuate the platform and secure the area below the platform to prevent access.
- Step 2** Remove loads from the platform.
- Step 3** Inspect the platform, suspension components and load-bearing elements for damage.
- Step 4** Determine the cause of overloading.
- Step 5** If necessary, correct the load specifications indicated in the assembly instructions or reinforce the platform.
- Step 6** Replace damaged components with serviceable ones of the same type.

#### **Checking for corrosion and decay**

- Step 1** Inspect all load-bearing elements, bolts and fasteners for corrosion or signs thereof.
- Step 2** Replace corroded components with serviceable ones of the same type.

**Step 3** Examine all Nodes, Joists and Beam Clamp Tubes for deformation of bores, bending or excessive deflection.

**Step 4** In the event of deflection, proceed as described in Section **Checking for excessive deflection** on page 131.

## Checking for damage to finish

**Step 1** Inspect the surface for chipped or damaged galvanising, paint or other surface coating.

**Step 2** To prevent corrosion, have qualified personnel repair the surface by applying a substance containing zinc.

Only qualified personnel may repair the finish. Persons performing this task must be qualified as stated on page 12. The persons must also be qualified to refurbish equipment.

Please contact the HÜNNEBECK technical department for more information.

## 12.2.8 Maintenance to components supplied by other manufacturers

**Step 1** Perform maintenance to components supplied by other manufacturers as described in the manufacturers' operating instructions.

# 13 Load placards

Platform load signage is essential on all suspended platforms.

Affix load placards at all platform entry locations, enabling personnel to quickly and easily determine the platform load capacity. Depending on the site conditions for the specific case, the placards should also be displayed in other places on the platform, with the quantity determined by the contractor.

## TIP

The placards have the same information on both sides for the best visibility. HÜNNEBECK recommends keeping the signs double-sided when photocopying them.

They can also be printed single-sided and then placed back-to-back.

The placards remain legible longer when they are laminated.

This section contains samples of placards with the standard load ratings of the Quikdeck system.

The standard load ratings are:

- Load class 2, up to 150 kg/m<sup>2</sup>
- Load class 3, up to 200 kg/m<sup>2</sup>
- Load class 4, up to 300 kg/m<sup>2</sup>

Load placards for special load ratings can be obtained from HÜNNEBECK.

In some markets, such as in Germany, specific information may be required. In accordance with DIN 4420-3, below is the required information to be displayed:

- Name of scaffold creator
- DIN 4420-3
- Load class
- Number of workingplatforms or area in m<sup>2</sup> which is allowed for loading
- Any special applications or restrictions in case of wind

**Step 1** Select the sample for the load rating required in the specific case.

**Step 2** Determine the location and amount of copies needed to be installed.

**Step 3** Affix the laminated copies to the platform.

## Load class 2



### DANGER

#### Risk of fatal injury due to single platforms or the entire Quikdeck collapsing if the load limits are exceeded!

Components can come loose and fall off if excessive load is imposed on Quikdeck.

- Attach Quikdeck only to structures that can bear the total weight of Quikdeck as well as all loads imposed on the system.
- Install all components only as described and shown in the Quikdeck user guide.
- Ensure that the load rating of the components is not exceeded.
- Use only components that are suitable for Quikdeck.
- Impose on Quikdeck only loads in accordance with the specifications in the Quikdeck user guide and the static calculations for the specific application.
- Make sure that all load-bearing components and fasteners can support the anticipated load and are not overloaded.

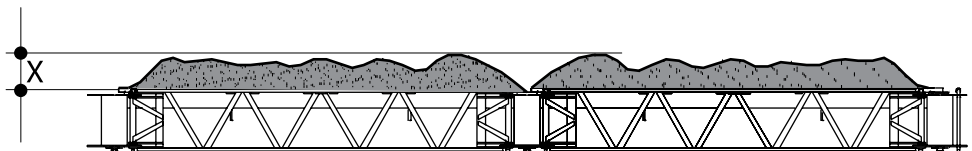
Only components that meet the requirements specified in the section “Intended use” of the Quikdeck user guide are suitable.

All persons working on the Quikdeck system must be familiar with working on suspended platforms as well as with the applicable regulations.

Additional information can be found beginning on page 11 and in the assembly instructions.

Please contact HÜNNEBECK with any questions or for additional information.

| Material                     | Maximum material load per bay (2.40 m x 2.40 m) |
|------------------------------|-------------------------------------------------|
| Concrete debris, distributed | 50 mm thick                                     |
| Gravel/sand, distributed     | 20 mm thick                                     |
| Water, distributed           | 75 mm thick                                     |



## Load class 3



### DANGER

#### Risk of fatal injury due to single platforms or the entire Quikdeck collapsing if the load limits are exceeded!

Components can come loose and fall off if excessive load is imposed on Quikdeck.

- Attach Quikdeck only to structures that can bear the total weight of Quikdeck as well as all loads imposed on the system.
- Install all components only as described and shown in the Quikdeck user guide.
- Ensure that the load rating of the components is not exceeded.
- Use only components that are suitable for Quikdeck.
- Impose on Quikdeck only loads in accordance with the specifications in the Quikdeck user guide and the static calculations for the specific application.
- Make sure that all load-bearing components and fasteners can support the anticipated load and are not overloaded.

Only components that meet the requirements specified in the section “Intended use” of the Quikdeck user guide are suitable.

All persons working on Quikdeck must have the following qualifications:

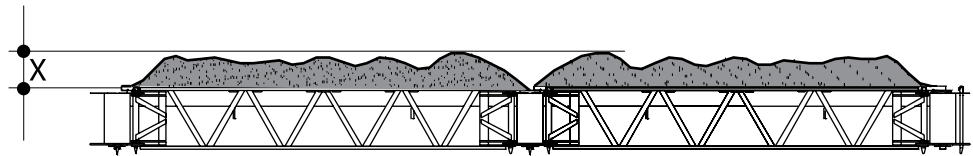
- They must be familiar with working on suspended platforms as well as with the applicable regulations.

- They must have completed the Quikdeck training course and passed the Quikdeck test.

Additional information can be found beginning on page 11 and in the assembly instructions.

Please contact HÜNNEBECK with any questions or for additional information.

| Material                     | Maximum material load per bay (2.40 m x 2.40 m) |
|------------------------------|-------------------------------------------------|
| Concrete debris, distributed | 75 mm thick                                     |
| Gravel/sand, distributed     | 25 mm thick                                     |
| Water, distributed           | 100 mm thick                                    |



## Load class 4



### DANGER

**Risk of fatal injury due to single platforms or the entire Quikdeck collapsing if the load limits are exceeded!**

Components can come loose and fall off if excessive load is imposed on Quikdeck.

- Attach Quikdeck only to structures that can bear the total weight of Quikdeck as well as all loads imposed on the system.
- Install all components only as described and shown in the Quikdeck user guide.
- Ensure that the load rating of the components is not exceeded.
- Use only components that are suitable for Quikdeck.
- Impose on Quikdeck only loads in accordance with the specifications in the Quikdeck user guide and the static calculations for the specific application.
- Make sure that all load-bearing components and fasteners can support the anticipated load and are not overloaded.

Only components that meet the requirements specified in the section “Intended use” of the Quikdeck user guide are suitable.

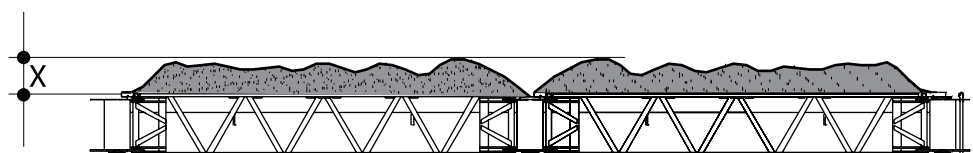
All persons working on Quikdeck must have the following qualifications:

- They must be familiar with working on suspended platforms as well as with the applicable regulations.
- They must have completed the Quikdeck training course and passed the Quikdeck test.

Additional information can be found beginning on page 11 and in the assembly instructions.

Please contact HÜNNEBECK with any questions or for additional information.

| Material                     | Maximum material load per grid (2.40 m x 2.40 m) |
|------------------------------|--------------------------------------------------|
| Concrete debris, distributed | 175 mm thick                                     |
| Gravel/sand, distributed     | 50 mm thick                                      |
| Water, distributed           | 200 mm thick                                     |



## 14 Chronology

| Changes since edition 2019-03 |         |         |
|-------------------------------|---------|---------|
| Change                        | Page    | Date    |
| Component names updated       | various | 2019-07 |
| Components added              | various | 2020-09 |

**Hünnebeck**  
**Deutschland GmbH**  
Rehhecke 80  
D-40885 Ratingen  
+49 2102 9371  
info\_de@huennebeck.com  
www.huennebeck.de

Copyright shall remain the sole property of BrandSafway. All brands named in this document are property of BrandSafway unless marked or in any way perceivable as third party rights. HÜNNEBECK, SGB and ALUMA systems are trademarks of BrandSafway. Furthermore, all rights are reserved, particularly with regard to patent grant or utility model registration. Unauthorised use of this document, of the brands contained herein or of other property rights is expressly prohibited and constitutes a violation of copyrights, trademark law or other industrial rights.

the illustrations contained in this document reflect the normal operation at a construction site and are not always correct in regard to safety issues

**Last modified: September 2020**  
**Keep for later use!**