

Original user manual

TRUSS BRACKET 30/40 WITH HALF COUPLERS



Manufacturer:

Rolight Theatertechniek B.V.

Josink Kolkweg 10

7545 PR Enschede, The Netherlands

Phone (+31)53 432 06 44

info@rolight.nl

www.rolight.nl

Distributed by ADMIRAL

VERSION 01
January 2025
SKU: RIHBAD39

CONTENT

- 1. INTRODUCTION
- 2. SAFETY INSTRUCTIONS
- 3. SCOPE
- 4. LIMITATIONS OF USE
- 5. TECHNICAL DATA & LOADCHART
- 6. IDENTIFICATION
- 7. EXPLANATION OF THE STICKER
- 8. ASSEMBLY INSTRUCTIONS
- 9. DISASSEMBLY INSTRUCTIONS
- 10. STORAGE
- 11. MAINTENANCE & REJECTION CRITERIA
- 12. WARRANTY
- 13. EC DECLARATION OF CONFORMITY

1. INTRODUCTION

The ADMIRAL TRUSS BRACKET 30/40HC is a truss accessory to be used as lifting point in temporary or permanent installations. For ease of reading, the wording “TRUSS BRACKET 30/40HC” is used to replace the full product name “Truss bracket 30/40 with half couplers”.




In this manual ELL stands for Entertainment Load Limit. Meaning the device has a inherent double safety factor (8:1) and is therefore suitable to suspend and lift loads above persons. The TRUSS BRACKET 30/40HC is also designed to meet the German regulation for loads above persons DGV17/18 (formerly known as BGVC1).

ADMIRAL has endeavoured to deliver the highest degree of accuracy possible. However continuous improvement of our products is ADMIRAL policy. Therefore product specifications are subject to change without notice. Readers and users are encouraged to notify ADMIRAL of errors and send in suggestions for improvements. All communications will be carefully considered for future printings of this manual and changes to our products.

2. SAFETY INSTRUCTIONS

This user manual must be read and understood prior to assembly, setup and servicing. All people using and servicing the TRUSS BRACKET 30/40HC must familiarise themselves with the safety instructions and user guidelines written in this manual. This manual needs to be accessible for all users at all times.

LEGEND

	DANGER
<p>DANGER: Indicates a hazardous situation which, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations.</p>	
	WARNING
<p>WARNING: Indicates a hazardous situation which, if not avoided, could result in death or serious injury.</p>	
	CAUTION
<p>CAUTION: Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.</p>	
NOTICE	
<p>NOTICE: Addresses practices not related to personal injury.</p>	
SAFETY INSTRUCTIONS	
<p>SAFETY INSTRUCTIONS: Is used for lists of steps, procedures or instructions that might otherwise substitute a DANGER, WARNING or CAUTION notification. Note that equivalent phrases, such as SAFE OPERATION PROCEDURES or SAFE SHUT DOWN PROCEDURE, can be used in place of the words “SAFETY INSTRUCTION”.</p>	



CAUTION

- A TRUSS BRACKET 30/40HC must be taken out of service immediately if, during use, repair or maintenance damages are discovered.
- Remove people from the area during installation.
- Use solely instructed and/or trained personnel.
- Wear appropriate Personal Protective Equipment (PPE) such as hard hats and gloves during installation.
- Make sure there is adequate amount of working light during installation of the product.

3. SCOPE

The intended use of the TRUSS BRACKET 30/40HC is to create a lifting point for trusses for permanent or temporary installations within the entertainment industry.

The TRUSS BRACKET 30/40HC is suitable for truss with a centre-to-centre main chord distance of 239 mm (30 truss) and 339 mm (40 truss) ± 1.5 mm and has a load capacity of ELL 1000 kg.

Any other way of use is considered to be a case of misuse. Solely the user is liable for any damage or injury resulting from such cases.



WARNING

Check local legislation for the application of use.

4. LIMITATIONS OF USE



WARNING

Exceeding the limitations of use can severely endanger the audience and users.



WARNING

Dynamic factor of lifting must be considered separately.

- The TRUSS BRACKET 30/40HC can be operated from -20° up to 60° Celsius.
- Do not exceed the maximum ELL (entertainment load limit) stated on the product.
- Make sure the resulting forces on the supporting structure are approved by a competent person before applying the load.
- To determine the maximum suspended load on the product, all imposed loads shall be considered. e.g. the dynamic factor caused by the lifting machinery.
- Sound systems can be suspended but users must check regular the integrity of the clamp as severe vibrations could loosen bolts / knobs.
- The TRUSS BRACKET 30/40HC must be inspected by a competent person as often as required but with a minimum of 1 x per year. Records of these inspections must be kept.
- Inspect equipment before every use. A damaged TRUSS BRACKET 30/40HC shall be taken out of service.
- Outdoor use shall be approved by a competent person and might influence the load capacity. Do not expose the product to full rain or snow. Outdoor use is the sole responsibility of the operator.
- In case of use in the vicinity of saltwater, the product shall be rinsed regularly with fresh water to avoid corrosion.
- It is also imperative to observe the local accident prevention regulations and/ or occupational health and safety regulations.
- The support structure, on which the TRUSS BRACKET 30/40HC is used, must have lightning protection when used outdoors.
- The support structure, on which the TRUSS BRACKET 30/40HC is used, might need to have

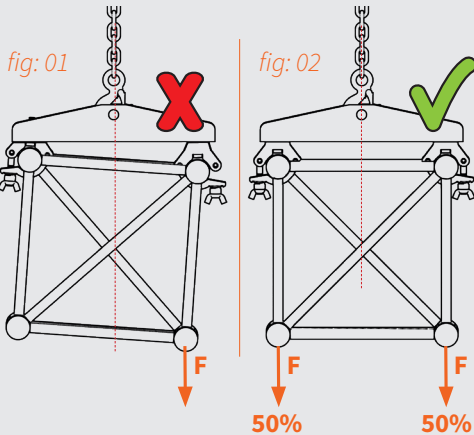
electric potential bonding.

- Do not use the TRUSS BRACKET 30/40HC to guide currents for electric potential bonding.
- Make sure the TRUSS BRACKET 30/40HC and the supporting structure are dry and free of dirt.
- Use appropriate packaging to transport the products. e.g. a flightcase.
- Solely use by ADMIRAL approved parts to replace damage or lost parts.
- Do not re-zinc steel components as they might be subject to hydrogen embrittlement.



WARNING

Do not apply eccentric loading (fig 01) but medial (fig 02).



WARNING

The allowable load from the TRUSS BRACKET 30/40HC strongly depends on the total supporting structure. A load that is too heavy can cause the structure to fail.



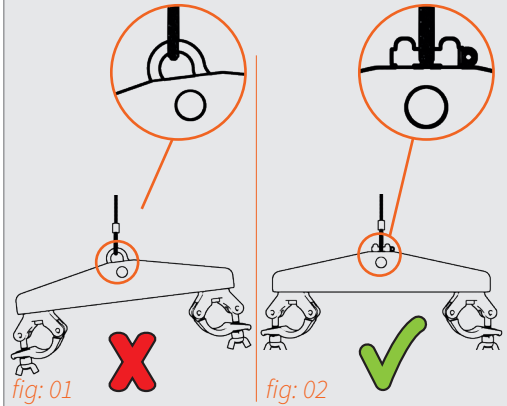
CAUTION

Do not throw the TRUSS BRACKET 30/40HC, as it might damage the product.



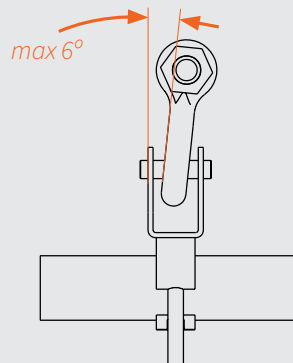
WARNING

Do not suspend the TRUSS BRACKET 30/40HC as shown below (fig 01). It creates torsional forces and influences the overall strength and stability.



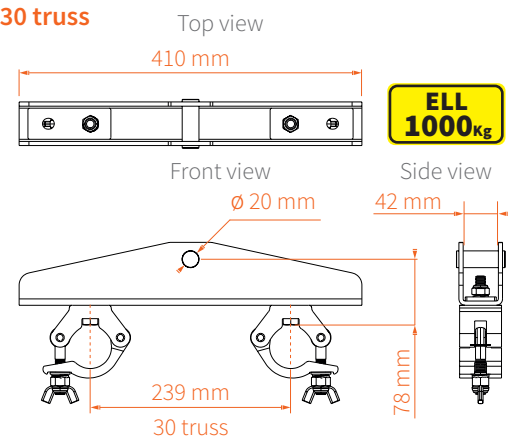
WARNING

Make sure the TRUSS BRACKET 30/40HC is placed in a vertical position. Do not exceed an angle of max. 6° when lifting the truss construction.

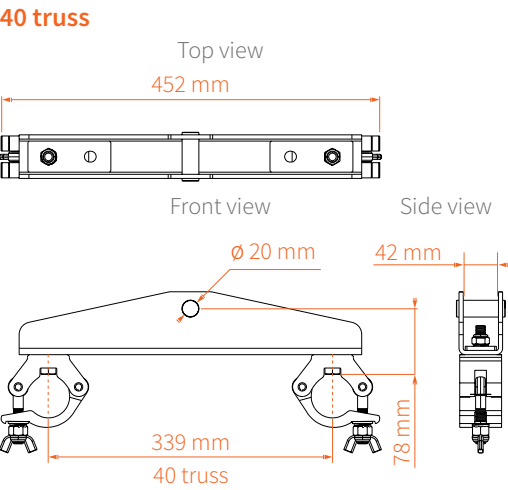


5. TECHNICAL DATA & LOADCHART

30 truss



40 truss



Technical data

Article code:	RIHBAD39
EAN:	8720094422466
ELL:	1000 kg
Safety factor against failure:	8:1
Material:	steel
Finish:	powder coated
Colour:	black gloss 30% (RAL 9005)
Dimensions:	452 x 64 x 192 mm (L x W x H)
Weight:	4.06 kg

Applicable Directives, Regulations, Standards and Information Papers

The following directive is applicable
2006/42/EC Machinery directive

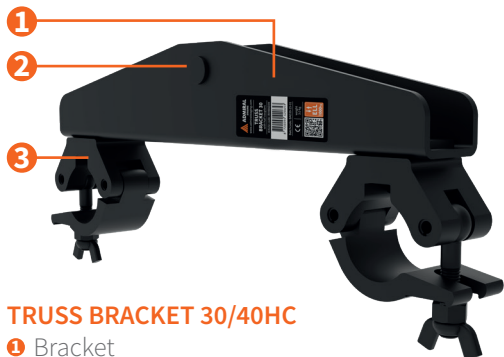
The following regulation is used
DGUV regulation 17 Regulations for stages and studios
(Formerly known as BGVC1)

Parts of the following standards and information papers are used
DGUV Information Safety at productions and events for television, radio, film, theatre, exhibitions: Loads above persons
(Formerly known as BGI 810-3)

EN 17206:2020 Lifting and load bearing equipment for stages and other production areas within the entertainment industry

BS 7905-1:2001 Lifting equipment for performance broadcast and similar applications. Part 1 specifications for the design and manufacture of above stage equipment

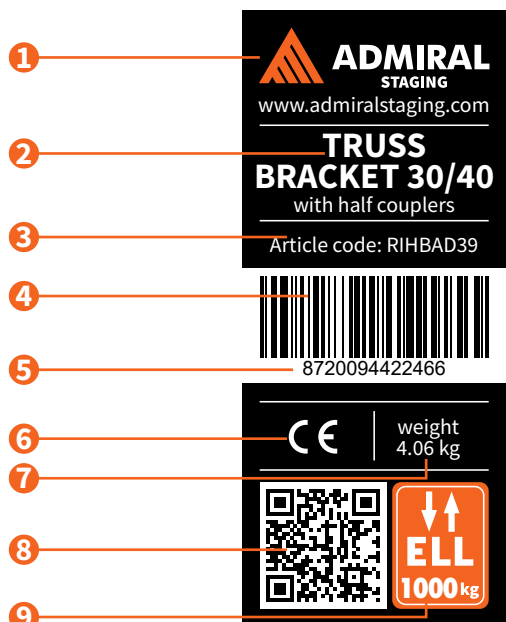
6. IDENTIFICATION



TRUSS BRACKET 30/40HC

- 1 Bracket
- 2 Pin
- 3 Halfcoupler RD48-51 50mm

7. EXPLANATION OF THE STICKER



TRUSS BRACKET 30/40HC

sticker

- 1 Brand name
- 2 Product name
- 3 Article code
- 4 Barcode
- 5 EAN code
- 6 CE Marking
- 7 Weight
- 8 QR code to online manual
- 9 Entertainment Load Limit

8. ASSEMBLY INSTRUCTIONS

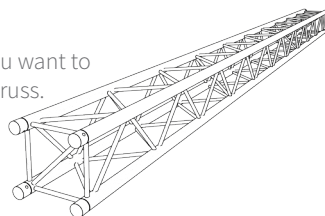


WARNING

Inspect the TRUSS BRACKET 30/40HC before use. Make sure all components are in place and in good order. If damaged, mark the item clearly and take out of service.

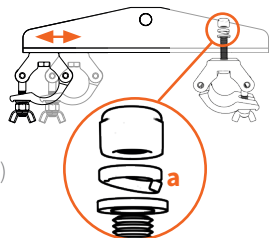
Step 1

Decide whether you want to use 30 truss or 40 truss.



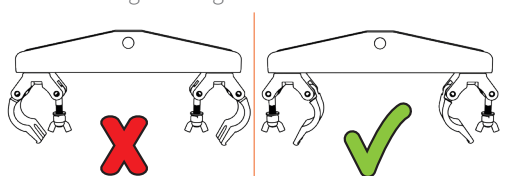
Step 2

Align the couplers to the correct position on the TRUSS BRACKET 30/40HC. Make sure to use the spring washer (a) when tightening them with 25 Nm.



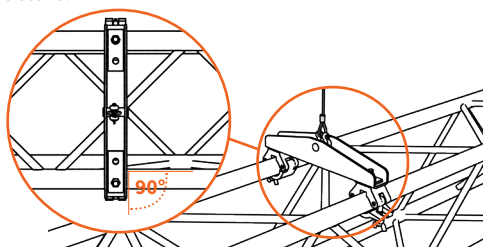
Step 3

Open the couplers and ensure they are positioned with their hinges facing each other.



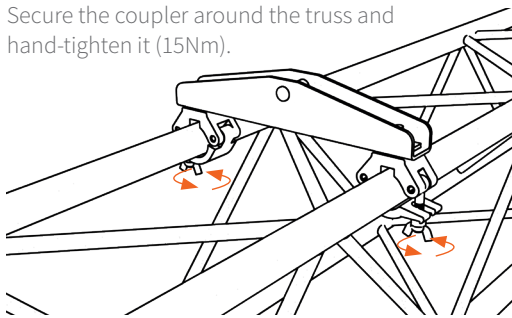
Step 4

Place the TRUSS BRACKET 30/40HC on the truss structure as close as possible to the node point. Ensure that the TRUSS BRACKET 30/40HC is aligned correctly to distribute forces evenly within the truss structure.



Step 5

Secure the coupler around the truss and hand-tighten it (15Nm).



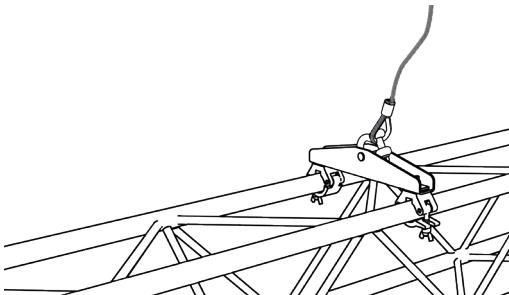
WARNING

Check the integrity of the TRUSS BRACKET 30/40HC after severe vibrations caused by e.g. sound or wind.

9. DISASSEMBLY INSTRUCTIONS

Step 1

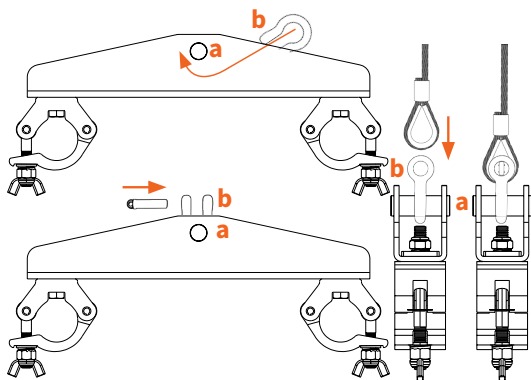
Lower the truss construction all the way down. Ensure that the wire rope or chain have slack.



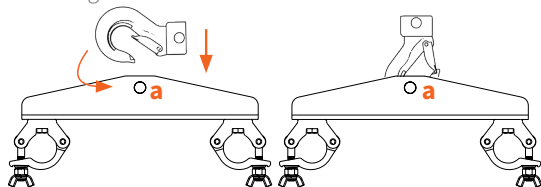
Step 6

Connect the TRUSS BRACKET 30/40HC to the hoist using a certified shackle with a minimum ELL of 1000 kg and a bow opening of 20 mm minimum.

Unscrew the shackle pin and place the bow around the pin (a). Insert the certified wire rope between the ears (b), and connect the parts by placing the shackle pin in the bow and tightening it with 25 Nm.

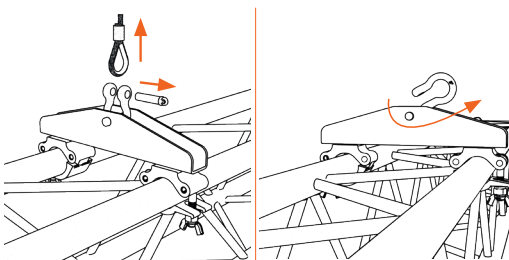


Alternatively, connect the TRUSS BRACKET 30/40HC to the lifting hook. Open the hook, place the pin (a) of the TRUSS BRACKET 30/40HC in it and secure the hook again.



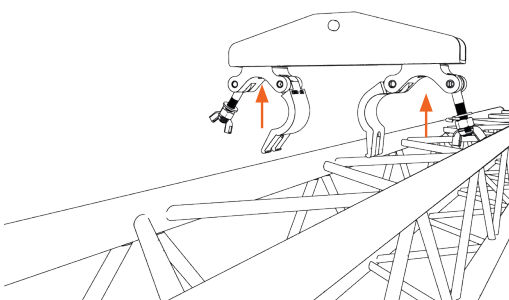
Step 2

Untighten the hoist from the TRUSS BRACKET 30/40HC.



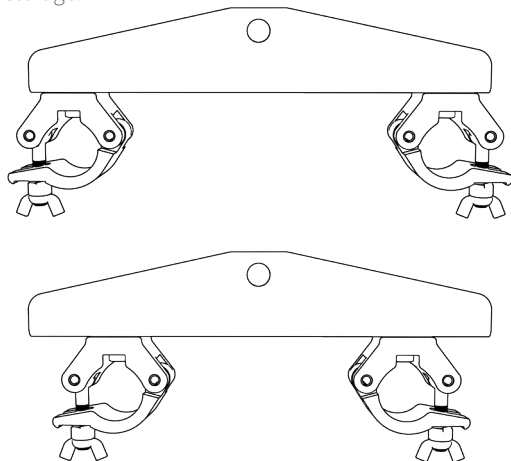
Step 3

Disconnect the TRUSS BRACKET 30/40HC from the truss structure.



Step 4

Tighten the coupler bolts to prepare the product for storage.



10. STORAGE

The TRUSS BRACKET 30/40HC must be stored in a dry, non-aggressive environment.

- Make sure the parts cannot bend.
- Avoid vibrations. Rubbing parts can cause excessive wear and tear.

11. MAINTENANCE & REJECTION CRITERIA

SAFETY INSTRUCTIONS

The TRUSS BRACKET 30/40HC hardly needs any maintenance under normal use and environmental circumstances.

For safety reasons however, all parts must be checked regularly for dirt, damages, loss and corrosion.

The TRUSS BRACKET 30/40HC shall be checked in compliance with the local law by a competent person. Checking shall take place as often as required but with a minimum of 1x per year. In case of doubt contact ADMIRAL Staging.



WARNING

If damaged, mark the item clearly and take it out of service.

- Missing or damaged parts shall be replaced by genuine Admiral components solely.
- Check all components for damages like cracks, deformations, scratches and corrosion. Damaged and corroded parts shall be rejected and thrown away.
- In general, scratches > 10% of the wall thickness mean the products needs to be rejected from use.
- In general, deformations > 10% of a straight line from the outer surface mean the products needs to be rejected from use.
- Remove all sharp and rough feeling edges and surfaces by using sand paper or a file.
- Check all welds for cracks. If cracked, replace.

12. WARRANTY

- For a period of 24 months we will repair, free of charge, any damage attributable to faulty materials or workmanship under the condition that the equipment is forwarded, freight paid, to our warehouse or one of the ADMIRAL Staging distributors' warehouses.
- The warranty-period begins with the day of the delivery, proven by a purchase receipt like an invoice or delivery note or their copies.
- The warranty does not cover damage due to transport, negligent handling, overloading the equipment or parts subject to normal wear and tear signs. Nor damages that originate from a case of misuse because of nonobservance of the safety regulations in this instruction manual.
- The warranty will be invalid when other parts than the original ADMIRAL Staging parts have been used or modifications of our design have been made by third parties.
- Warranty repairs do not renew nor extend the warranty-period.
- In case of a claim that falls under the warranty, e.g. a malfunction or spare part requirements please contact your point of sale or ADMIRAL Staging.
- The manufacturer is not liable for indirect consequential damage and financial loss.
- The manufacturer shall not be liable for any changes made to the TRUSS BRACKET 30/40HC parts nor for any damage resulting from such changes.

13. EC DECLARATION OF CONFORMITY



EC-DECLARATION OF CONFORMITY FOR MACHINERY (2006/42/EG Annex II)

Rolight Theatertechniek
Josink Kolkweg 10
7545 PR Enschede
The Netherlands

Herewith declares that for :

Admiral "TRUSS BRACKET 30/40HC"; Article code RIHBAD39

- is in compliance with the Machinery Directive 2006/42/EC annex II
- the following harmonized standards have been applied (or parts/clauses of): EN 12100-1-2010,
- the following technical regulations , standards and information papers have been used (parts/clauses of): German DGUV 17-18, German DGUV 215-313, EN 10204:2004, EN 17206 :2020, BS 7905-1 :2001, EN 1993, EN 1999

Enschede , The Netherlands 13 januari 2025

Ms. E. Dijk
Owner Rolight Theatertechniek b.v.



Rolight

