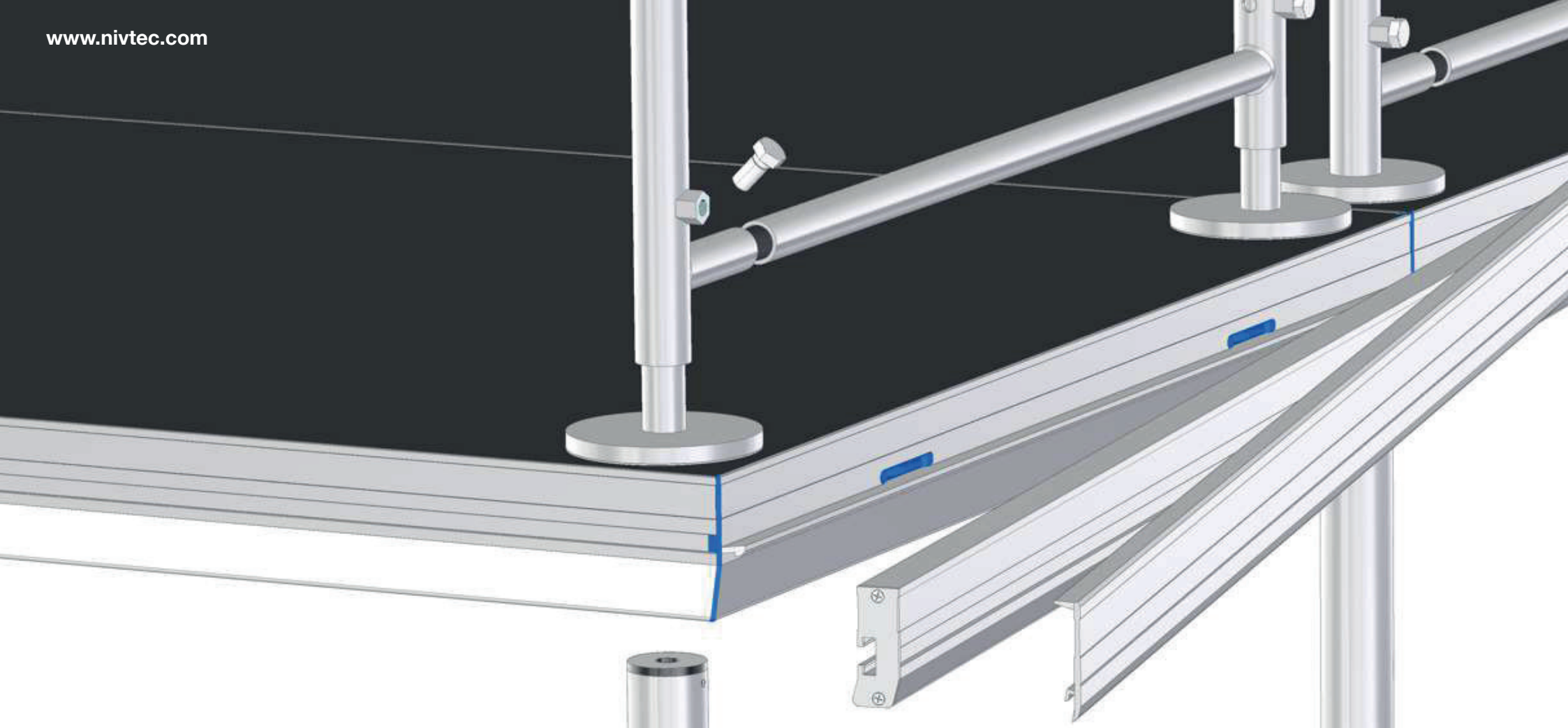
www.nivtec.com



Part II. **Assembly Instructions** - Directory:

nivtec alu

The System for Stages, Galleries & more certified acc. to DIN EN 13814

Part II. **Assembly Instructions**

Edition 1.0 - 2026

Preface: Assembly Instructions for nivtec staging system in grid 200 x 100 cm

These assembly instructions apply to nivtec stages with **grid 200 x 100 cm**. The installation described in detail below is illustrated with 50 x 50 cm platforms to show the stage building procedure as clearly as possible. The set up is transferable to all nivtec platforms with other dimensions.
Step by step, these instructions explain how stage platforms are assembled to form a stable **stage** and how other nivtec structures such as **stairways, show stairways, ramps, galleries and rolling risers** are installed with different base constructions. It explains how **rails** as well as accessories such as **function laths** for attaching the textile lining are mounted on these nivtec superstructures. Thereafter, exploded view drawings of the individual nivtec stage superstructures have been presented.

For additional set up instructions in words and images, please refer to our **Product Catalogue – Edition 1.0- 2026**.
The bracing regulations and detailed attachment of the diagonal braces starting at a stage height of 80 cm and the horizontal braces which are mandatory in addition to the diagonal braces above a stage height of 140 cm can be found in the **Catalogue nivtec + Alu Scaffolding – Edition 2.0-2026.**

In **nivtec-ingeniously simple – Edition 3.0-2026** you will find detailed set up rules in their most simple form and a large selection of set up schemes for nivtec superstructures in various sizes and heights up to a maximum of 200 cm:
stages from small stages to large stages
galleries with tier height 20 cm and 40 cm
stairways and show stairways with tier height 20 cm and 16.66 cm
ramps with gradient 7.5°, 5° as well as 3.44° – wheelchair accessible

All mandatory set up rules must be strictly adhered to.
set up only in accordance with the assembly instructions and set up schemes.

In addition to the standard configuration, the set up of stages in special forms is only possible to a limited extent due to the tongue and groove hook-in construction.
For nivtec stages with weight girders in a **200 x 200 cm grid**, detailed set up instructions are available in the **nivtec + Steel Scaffolding – Edition 5.0-2026** catalogue.

Chapter I. Stage Project with nivtec:

size and height of the stage

When planning your stage, you need to consider the type of event as well as the size and height of the stage when selecting the required material. The height of the stage is decisive for the base construction, as you need to plan for diagonal braces starting at a stage height of 80 cm. Above a stage height of 140 cm, horizontal braces are mandatory in addition to the diagonal braces. Here, the bracing material must be provided in advance.

type of event

For stages for **events with rhythmic loads** such as dancing, additional bracing material must be used depending on the height of the stage. The venue should have a ground that is approximately level so that fix legs can be used. With regard to safety, restrictions must be accepted in terms of flexibility. If stepless legs are used, the height of the stage and the levelling range must be reduced, and skid-proof floor protectors must be used. For more on rhythmic loads, see **Safety Instructions Catalogue – Edition 2.0-2026.**
It also contains additional information on stages for **presentations with high point loads, mixed installation of the nivtec types of bases** for stages and galleries, as well as the maximum permitted **spindle way** of Layher scaffold spindles and **bracing regulations.**

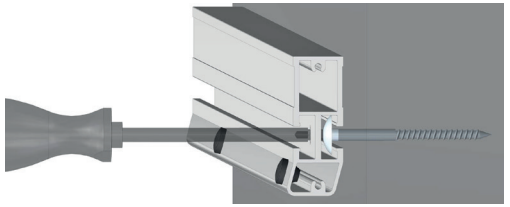
venue: outdoor use is allowed, but only for a short period of time

nivtec stage platforms are ideal in terms of weight and handling for the rapid set up and tear down of stage constructions. They feature elaborate bonding of the aluminium frame and wood, which results in a consistently level stage surface without any tripping hazards. The panel is coated with phenolic resin film and is water-resistant, however, it is not waterproof or weatherproof. If the plywood absorbs too much moisture, this may result in visual changes of the surface. The wood fibres expand (swell) and may cause waves to form on the surface of the panel. This is a visual change. The technical properties of the panel remain unchanged. In order to be able to enjoy this light and fast staging system for a long time and to preserve the aesthetics of the 12 mm thick panel, the outdoor use must be kept to an absolute minimum. The climatic conditions, which are becoming more and more extreme, have an impact on the stress on the panel. It is mandatory to provide adequate protection from direct sunlight and moisture, as well as to ensure that the surface dries quickly in case of moisture/wetness. All mandatory set up rules must be strictly adhered to. In the case of outdoor use, the customer bears sole responsibility for the wear and tear and therefore the appearance of the panel material.

attaching a nivtec stage to a fix object

To attach a nivtec stage to a fix object, the nivtec adapter lath, also known as an reversible profile, is required. Depending on the size, boreholes with a diameter of 10 mm must be drilled into the centre bar of the adapter lath as follows:
For length ≤ 100 cm, at least 2 boreholes, for length > 100 cm at least 3 boreholes
The screws are inserted laterally into the rear groove and positioned under the boreholes; the screws are tightened via the boreholes using a suitable screwdriver. Screws to be used:
- concrete and wood: 8.0 x 80 T x 40 (dowels required for masonry)
- metal: round-head screw M8 x 50

Adapter laths do NOT replace the legs, as they are not load-bearing elements. Therefore, they may only be used as linking elements. The set up is executed as specified in the nivtec set up instructions and in accordance with the nivtec set up principle 4-2-2-1.



From its beginnings in 1999 until 2026, the nivtec staging system has differed from all other systems:
- due to the hook-in design made of tongue and groove profiles with integrated locking mechanism: **3 Klick-Klack** locking mechanisms for a 200 cm platform side and 2 Klick-Klack locking mechanisms for a 100 cm platform side
- due to **solid corner protection** at each platform corner to ensure that the platforms remain exactly in the grid and that the legs are positioned at a 90° angle in the leg supports
- due to **only 12 mm thick multiplex phenol coated panel** Wisa-Hexa
- due to **legs with load rings** that guarantee lasting stability (proven by tests)
- due to **safety rails** with welded-on nuts and bolts for securing from the outside
- due to **bracing regulations starting at 80 cm.**

The nivtec system, which is certified in accordance with DIN EN13814, cannot be supplemented or extended by any other system. In keeping with the motto: “nivtec all the way or not at all,” combining nivtec with other staging systems is not permitted. If such a combination is made, the nivtec certificates and approvals shall become null and void. In this case, the sole responsibility for the operation of such stages and galleries is transferred to the operator.

the ground surface and the selection of nivtec base construction for the set up

Stability is only guaranteed if original nivtec parts are used exclusively and if the set up is performed in accordance with nivtec specifications (e.g. when using specified Layher parts). Before use, all parts must be checked to ensure that they are in a flawless condition.
The legs should be selected corresponding to the existing ground surface. The stage construction may only be set up on load-bearing ground surface and horizontally aligned, as well as – in case of larger irregularities of the ground – sufficiently underpinned. For this, the reference values for underpinnings specified in DIN EN 13814, Article 5.5.4 apply.

In case the ground surface is not stable, when using any type of leg, it is mandatory to ensure that a stable, well padded underpinning is used, especially in case of outdoor use. It should consist of phenol coated panels with a thickness of at least 24 mm. Gravel or chippings are ideally suited as underlay material.

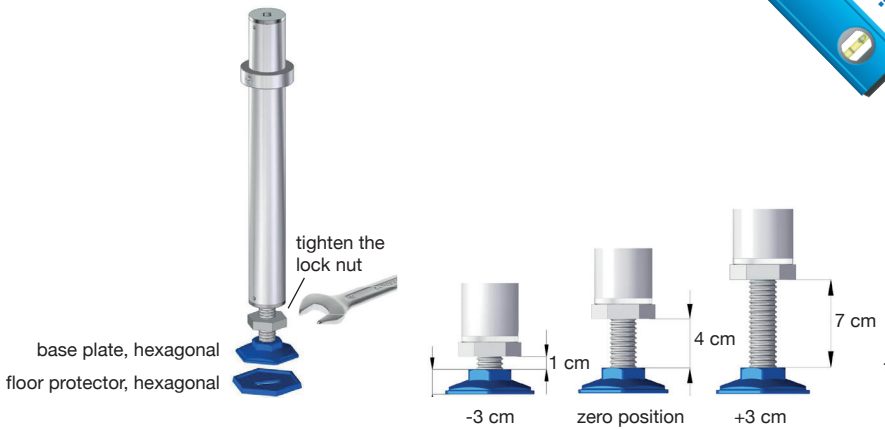
Depending on the floor conditions, the use of floor protectors may be necessary, especially on slippery or sensitive surfaces (concrete, hardwood flooring, tiles, etc.).

Chapter II: Base Construction & height levelling of the nivtec stage

fix
for level ground surface

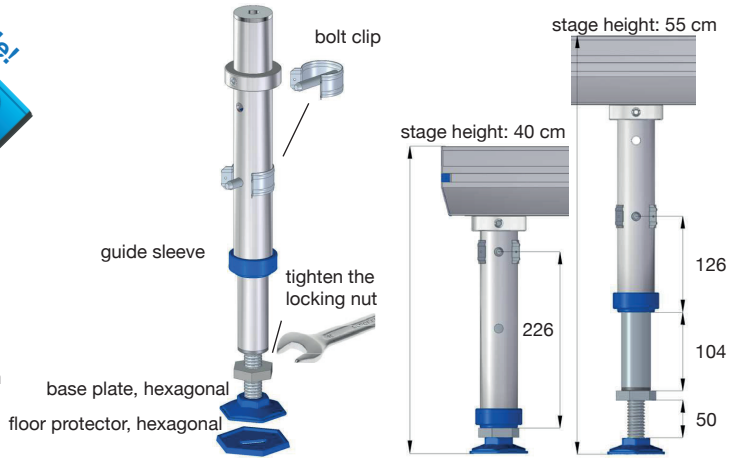
load distributor leg LV
with removable leg cork square
If the ground surface is not level,
the use of fix legs is no longer an option.
The use of a spirit level is indispensable!
example: load distributor leg LV 50 cm

levelling
for small irregularities

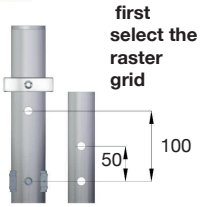


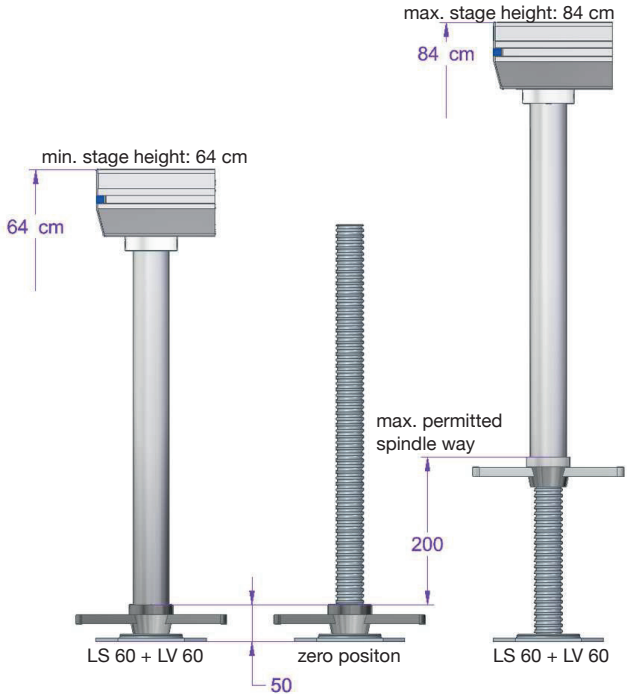
levelling leg VS
with spindle travel +/- 3 cm starting at 40 cm with a lock nut:
set the required height, tighten the lock nut
example: levelling leg VS 50 cm

extension
for larger differences in height



extension leg TF (telescopic)
height adjustment in raster 5 cm,
Important: first select the appropriate raster
– insert the bolt clip
– fine-level the height +/-3 cm using the levelling leg
– tighten the lock nut
Example: Extension leg TF leg 40-60 cm





stepless with Layher scaffold spindles
for larger irregularities

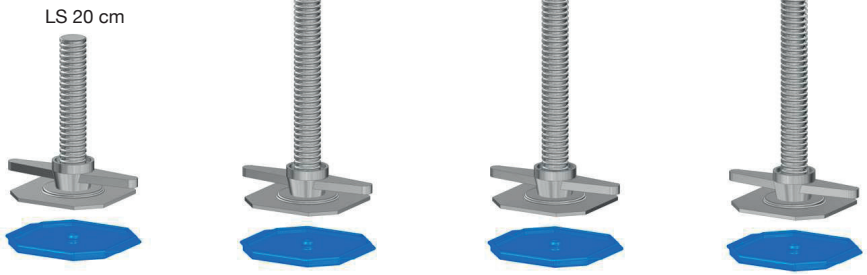
Combination of nivtec load distributor leg LV and Layher scaffold spindles LS
remove the leg cork, attach to the Layher spindle – start levelling
example: load distributor leg LV 60 cm + Layher scaffold spindle LS 60 cm

Layher scaffold spindle	max. spindle way	max. stage height	with nivtec-LV-leg
LS 20 cm	5 cm	49 cm	40 cm
LS 40 cm	10 cm	74 cm	60 cm
LS 60 cm	20 cm	84 cm	60 cm
LS 60 cm	20 cm	104 cm	80 cm
LS 80 cm	20 cm	104 cm	80 cm

For details on the maximum permitted spindle way of all LS in combination with the nivtec LV leg, please refer to:
Catalogue Edition 2.0-2026,
Safety Instructions 1.0 and 2.0

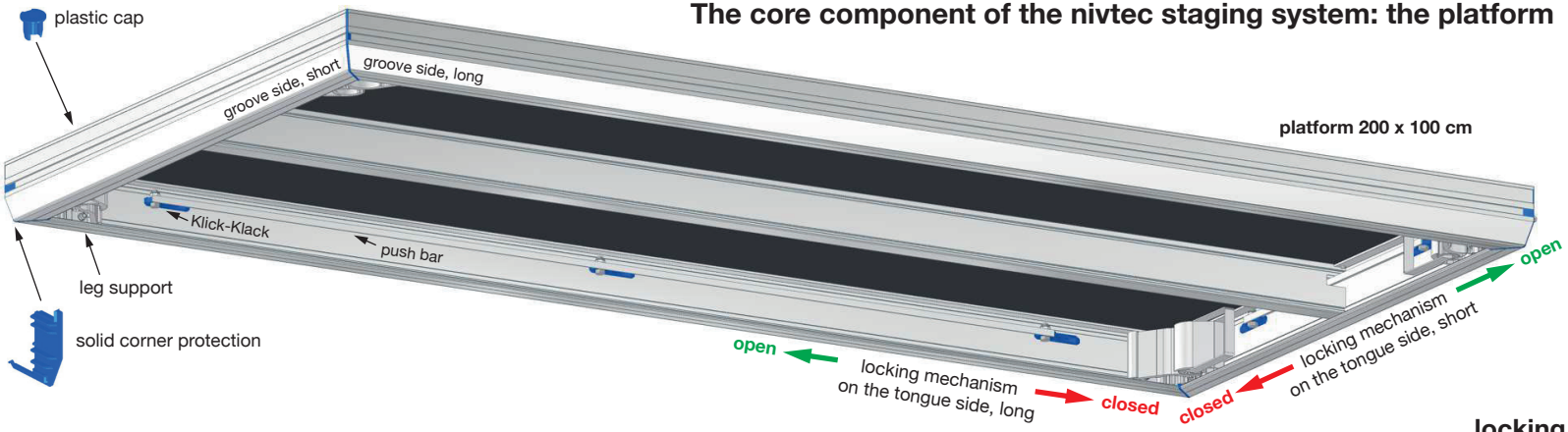

floor protector, octagonal

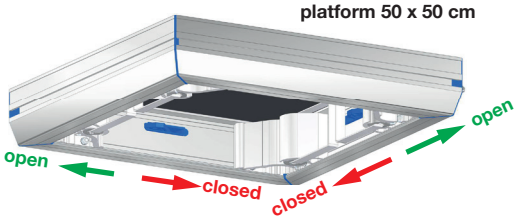
For a detailed overview of the adjustment of all extension legs in raster 5 cm, please refer to:
Catalogue Edition 1.0-2026,
Chapter Base Construction

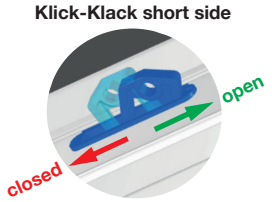


Chapter III. Installation of legs and platforms in accordance with the nivtec set up principle

The core component of the nivtec staging system: the platform







connection of the platform and the leg

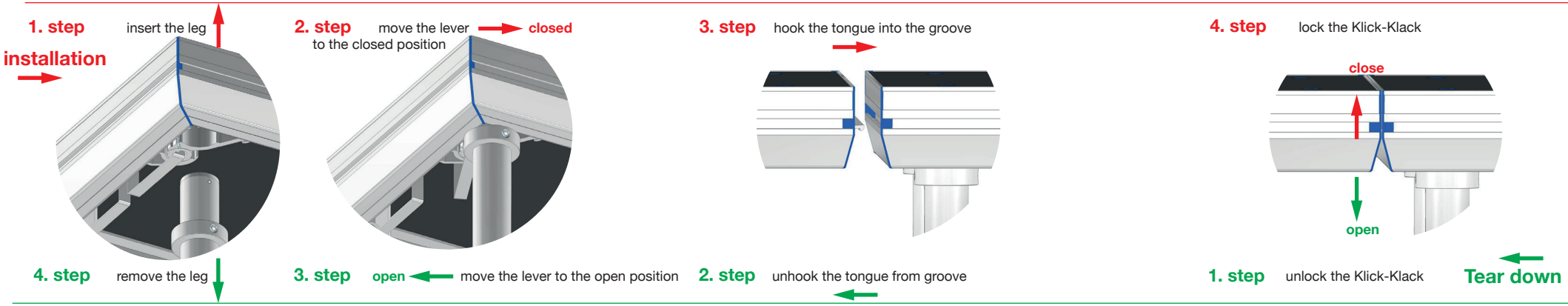
Each nivtec system platform is equipped with 4 leg supports with double eccentric clamping levers.
leg assembly: insert the leg into the leg support as far as it will go, move the clamping lever towards position “closed” and ensure that the leg is securely held in the leg support.

connecting the platforms together

Each platform features a hook-in design consisting of 2 tongue sides and 2 groove sides. To connect the platforms, the tongue side is hooked into the groove side.
Important: Hook the tongue into the groove, not the other way round!

locking the platforms together

Each and every nivtec platform features the integrated **“Klick-Klack”** locking mechanism on the tongue sides. In the case of platform sides of more than 50 cm, the existing **“Klick-Klacks”** are connected with a locking mechanism lever. Immediately after each insertion of the tongue into the groove, the locking mechanism on the underside of the platform must be moved towards position “closed” and the secure connection of the platforms must be checked.



position of the legs: 4-2-2-1

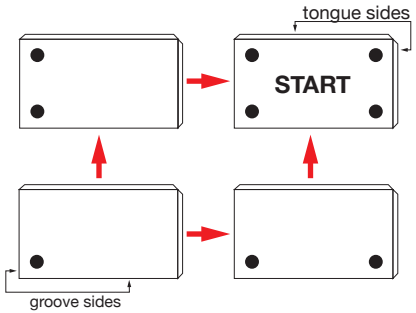
2	4
1	2

nivtec set up principle

EDGE PLATFORM BACK – 2 legs
rear row of platforms: 2 legs on the left on the short groove side (no legs on the right on the tongue side)

INNER PLATFORM – 1 leg
all other platforms: 1 leg at the front left corner of the groove sides (no further legs required)
hook the tongue into the groove – push on the platform – snap in – lock both tongue sides

position of the tongue sides

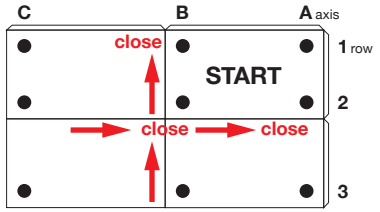


position at the back on the right

STARTING PLATFORM – 4 legs
the tongue sides of all platforms must face rearwards and to the right.
nivtec principle: position of the starting platform: rear right – 4 legs

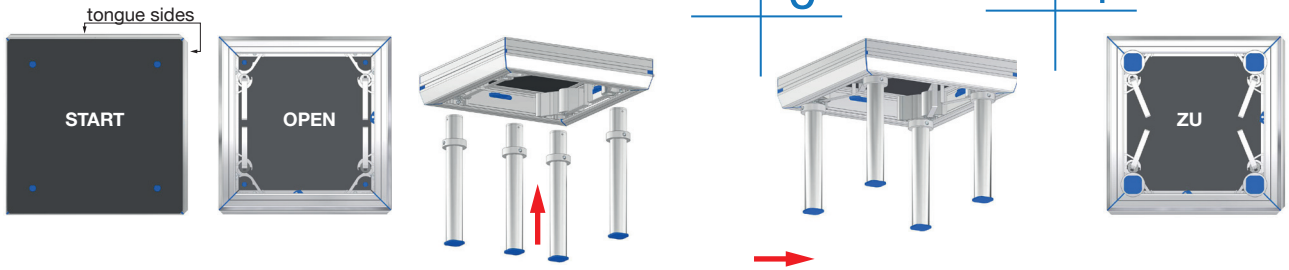
EDGE PLATFORM RIGHT – 2 legs
right-hand row of platforms: 2 legs at the front on the long groove side (no legs in the rear on the tongue side)

position of the locking mechanism

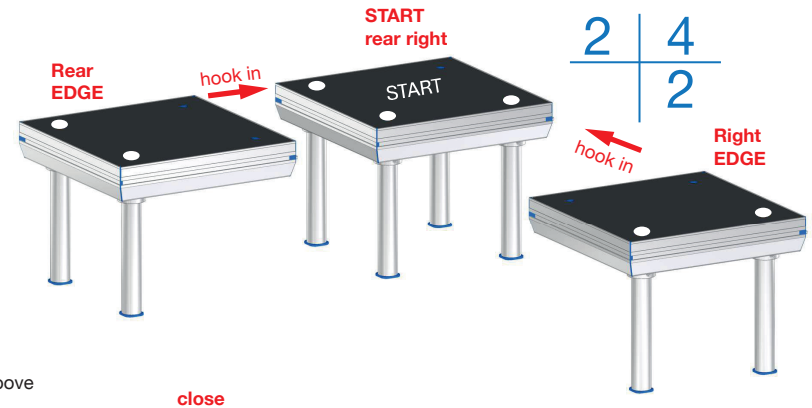


basic nivtec math:
4 platforms = 3 axes x 3 rows = 9 legs required

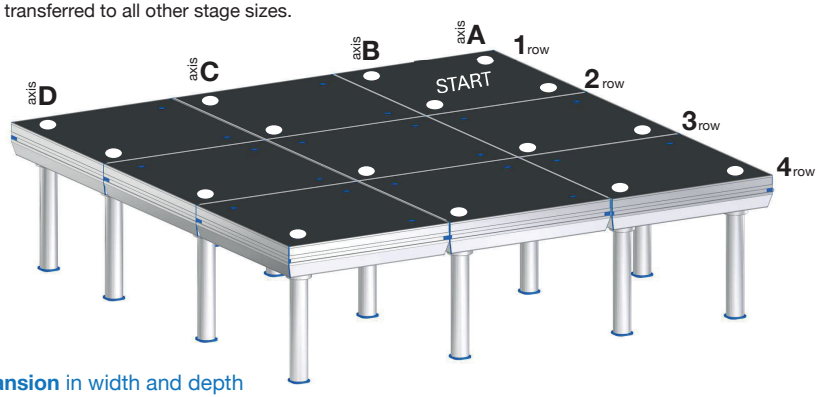
Chapter IV. Stage Building in accordance with the nivtec set up principle



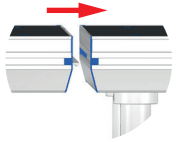
insert the leg into the leg support, move the lever done!



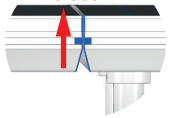
The leg scheme with 16 legs presented here for an example stage consisting of 9 platforms can be transferred to all other stage sizes.

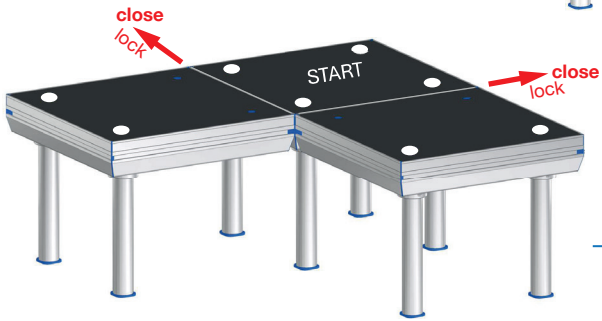


hook the tongue into the groove



lock the Klick-Klack
close



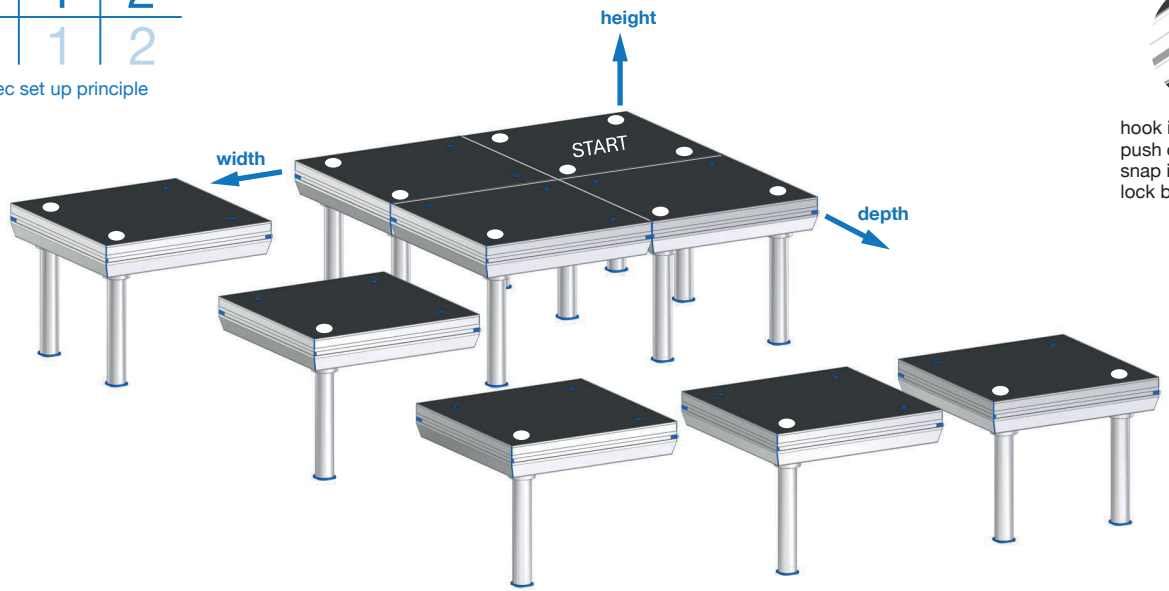


expansion in width and depth

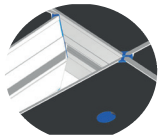
2	2	4
1	1	2
1	1	2

nivtec set up principle

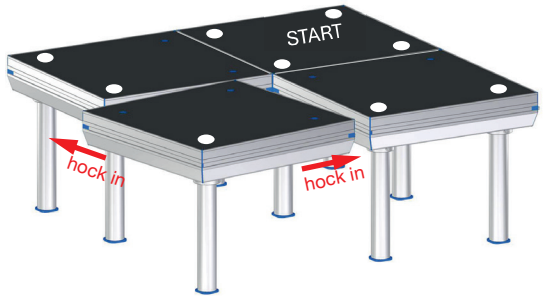
basic nivtec math:
9 platforms = 4 axes x 4 rows = 16 legs required



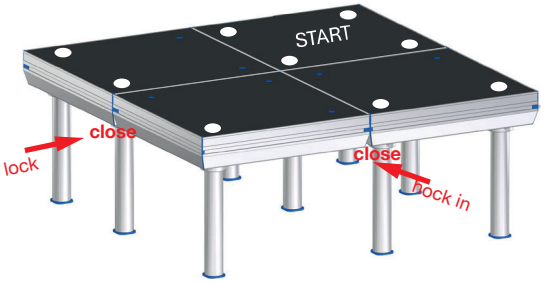
inner platform



hook in both tongues
push on the platform
snap into the groove
lock both sides



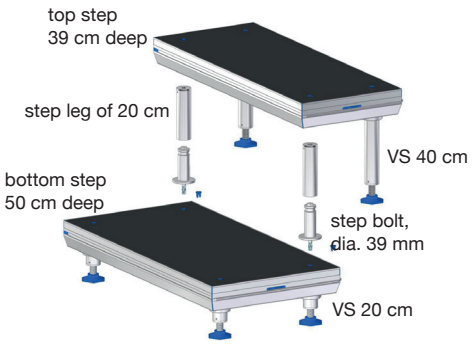
all done!

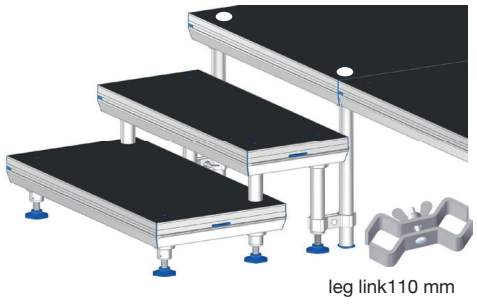


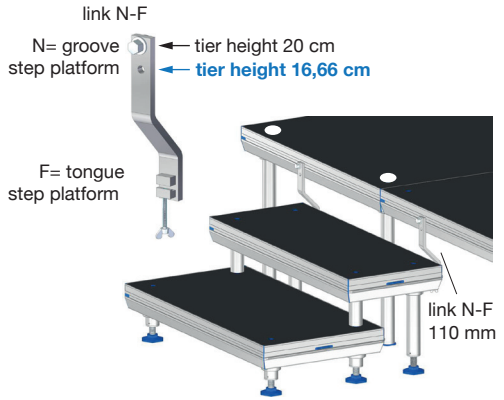
nivtec set up principle

Chapter V. Stairway Set Up in accordance with the nivtec set up principle

push-on stairway with 2 steps, 100 cm wide tier height 20 cm (theatre tier height of 16,66 cm)







1. For the bottom step, use a 50 cm deep platform and 4 legs 20 cm **(16.66 cm)**. Attach 2 support bolts dia. 39 mm at the back, tighten with a spanner AF 19

2 .For the top step, use a platform with depth 39 cm to achieve a uniform appearance. At the front, use 2 step legs 20 cm **(16.66 cm)** and 2 legs 40 cm **(33.33 cm)** at the back

3. Push the stairway to the stage.
4. Connection of the stairway and the stage on the groove side
   - 2 leg links 110 mm, use additional stage leg, if necessary.
   - 1 leg link 110 mm + 1 link N-F or
   - 2 links N-F, if no platform leg is available.
5. Connection of the stairway and the stage on the tongue side
   - 2 leg links of 110 mm, use additional stage leg, if necessary.

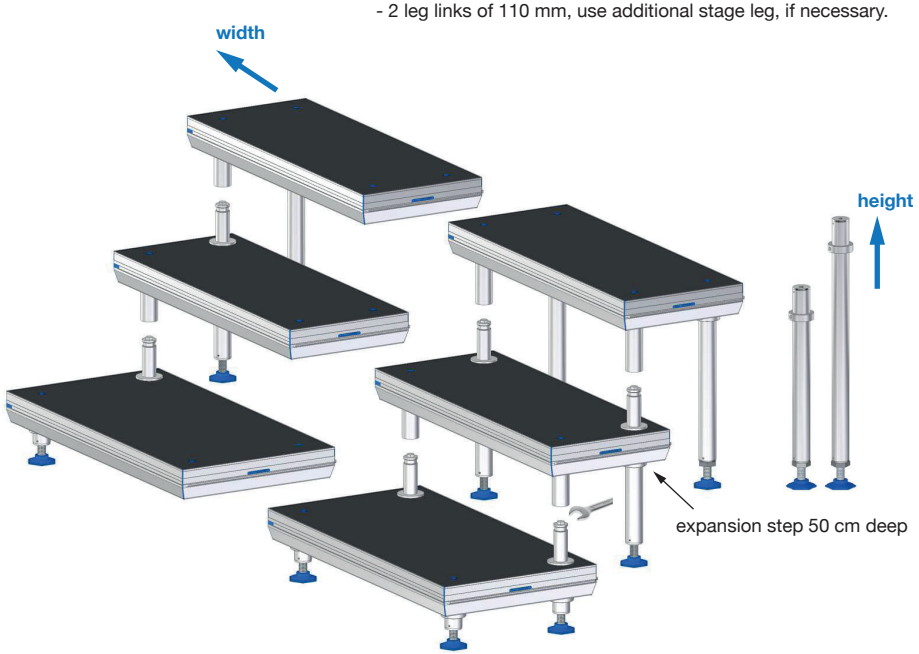
Expansion options for nivtec stairways:

expansion in height from 2 steps to 3 steps

1. For the bottom step, use a 50 cm deep platform and 4 legs 20 cm **(16.66 cm)**. Attach 2 support bolts dia. 39 mm at the rear and tighten with a spanner AF 19
2. For the expansion step, use a 50 cm deep platform, just like for the bottom step, attach 2 support bolts dia. 39 mm at the back and tighten with a spanner AF 19. For the second step platform, use 2 step legs 20 cm **(16.66 cm)** at the front and 2 legs 40 cm **(33.33 cm)** at the rear
3. For the top step, use a 39 mm deep platform to achieve a uniform appearance. Use 2 step legs 20 cm **(16.66 cm)** at the front and 2 legs 60 cm **(66.66)** at the back.
4. Push the stairway to the stage.
5. The connection of the stairways and the stages is repeated as described above.

expansion in width from 100 to 200 cm

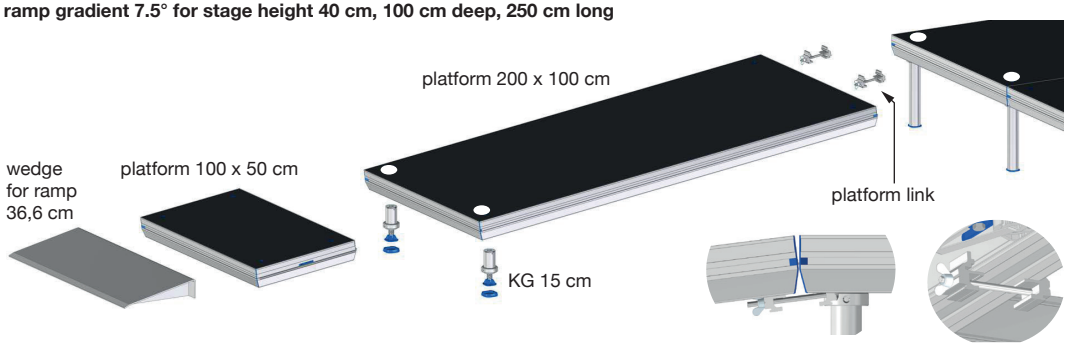
1. For the bottom step, insert a platform with a depth of 50 cm and 2 legs 20 cm on the left. Hook in the platform and lock it. Attach 1 support bolt dia. 39 mm at the rear left, tighten with a spanner AF 19.
2. For the second or further steps , use platforms with a depth of 50 cm, 1 step leg 20 cm **(16.66 cm)** at the front left and 1 leg 40 cm **(33.33 cm)** at the back. Place the expansion step with the attached step leg on the support bolt dia. 39 mm, hook it in and lock it at the same time. For the expansion, attach 1 support bolt dia. 39 mm at the rear left, tighten with a spanner AF 19.
3. For the top step, use a platform with a depth of 39 cm to achieve a uniform appearance. Use 1 step leg 20 cm **(16.66 cm)** at the front and 1 leg 60 cm **(50 cm)** at the back, place the platform with the attached step leg on the support bolt dia. 39 mm, hook it in and lock it at the same time.
4. Push the stairway to the stage.
5. The connection of the stairway and the stage is repeated as described above, but with one more leg link 110 mm.



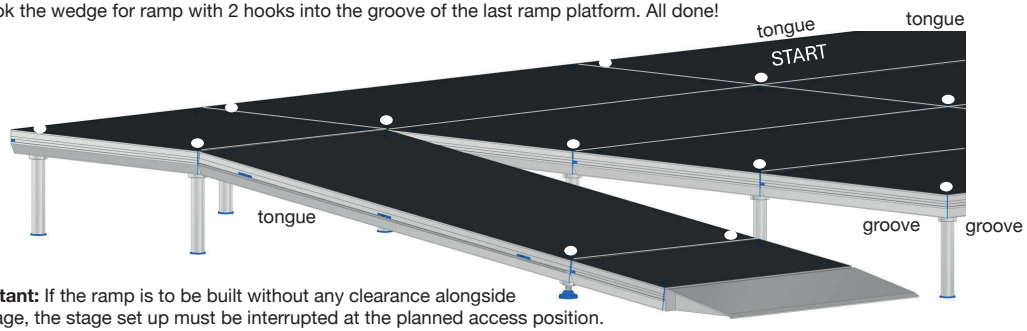
nivtec-ingeniously simple – Edition 2026 offers nivtec users a large selection of set up schemes with part lists of nivtec stairways & show stairways with a tier height of 20 cm &16.66 cm

Chapter VI. Ramp Set Up in accordance with the nivtec set up principle

ramp gradient 7.5° for stage height 40 cm, 100 cm deep, 250 cm long

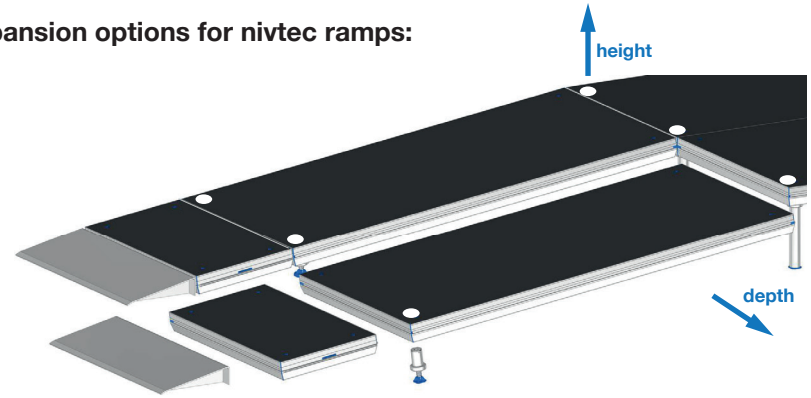


1. Select ball-bearing legs in accordance with overview table of ramps: see Catalogue Edition 1.0 - 2026, Base Construction. Here, use 2 ball-bearing legs 15 cm, adjust the required height, hook the first ramp platform into the groove side of the stage platform in the same grid and lock it. Loosely fasten 2 platform links - Place the ramp platform on the ground - Check the adjustment height of the ball-bearing legs - adjust the platform links to the tier height and secure.
2. Hook the expansion platform into the groove of the first ramp platform and lock it in place.
3. Hook the wedge for ramp with 2 hooks into the groove of the last ramp platform. All done!



Important: If the ramp is to be built without any clearance alongside the stage, the stage set up must be interrupted at the planned access position. An access platform must be hooked into the groove side of the stage in the same grid as expansion. Subsequently, the ramp is completed first. Then the stage building is continued. This approach prevents that the ramp set up will become more difficult later due to a lack of space.

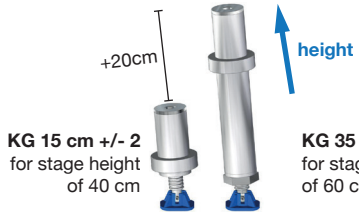
expansion options for nivtec ramps:



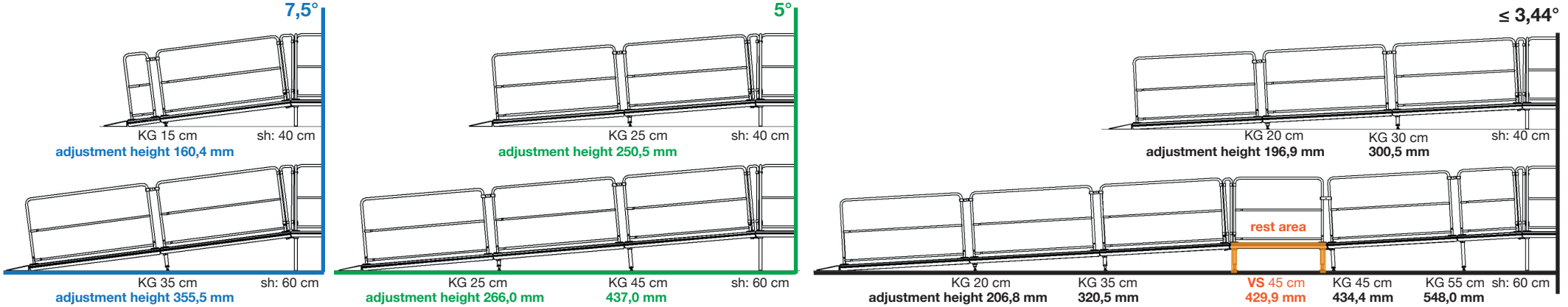
expansion in depth from 100 to 200 cm
For the expansion in depth to 200 cm, a 200 x 100 cm platform is fitted with a 1 ball bearing leg of the same length and is hooked and locked into the stage platform with a 100 cm side and into the first ramp platform with a 200 cm side.

expansion in depth from 100 to 150 cm
In case of ramp depth 150 cm, during stage set up 1 platform 200 x 100 cm must be replaced by 2 platforms 200 x 50 cm at the planned access position. An additional stage leg is required – see Chapter IX. For the ramp, a 200 x 50 cm platform is fitted with 1 ball bearing leg of the same length and is hooked into and locked in the stage platform with a 50 cm side and the first ramp platform with a 200 cm side.
The provision for a seamless connection of the ramp rail and the stage rail has been made – see Chapter IX.

expansion when raising the stage height from 40 to 60 cm With a stage height of 60 cm, the ramp length changes from 250 cm to 400 cm. The second ramp platform is larger, and the height of the ball bearing leg is increased by 20 cm. The approach for setting up the ramp corresponds to the description above.



Overview: ramps with different stage heights with wedges



nivtec-ingeniously simple – Edition 2026 offers nivtec users a large selection of set up schemes with part lists of nivtec ramps with gradient 7.5°, 5° as well as 3.44° – wheelchair accessible (clear width of at least 120 cm)

Chapter VII. Rolling Riser Set Up in accordance with the nivtec set up principle

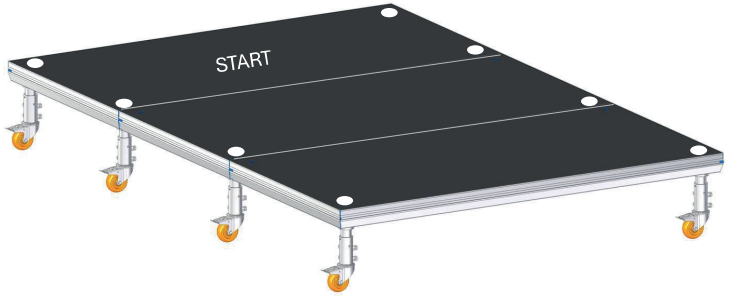
rolling riser with wheels dia. 10 cm (dia. 16 cm) , for stage height: 40 cm, 200 cm wide, 300 cm long

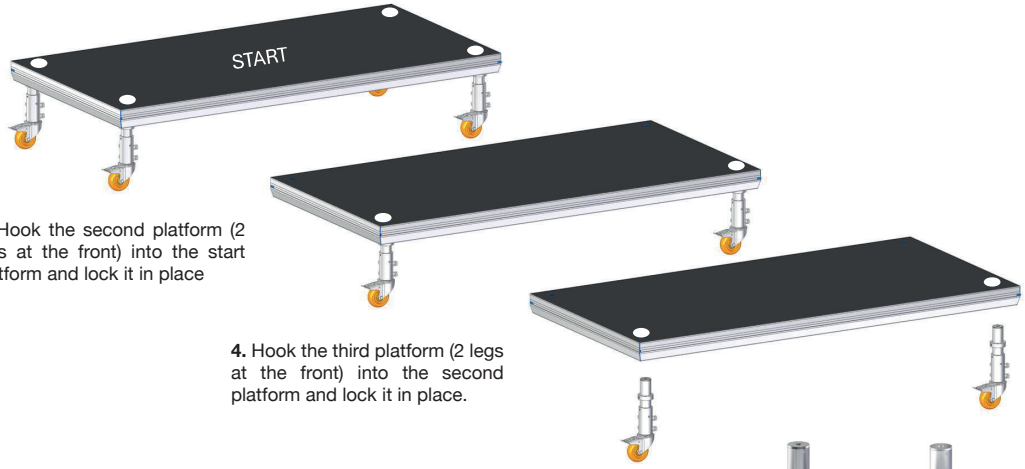
1. Insert the transport wheels dia.10 cm **(dia. 16 cm)** into the rolling riser adapters and secure them using a spanner AF 19.

Assembly instruction (step by step)

1. Insert the transport wheels dia.10 cm **(dia. 16 cm)** into the rolling riser adapters and secure them using a spanner AF 19.
2. Insert the fully assembled RR legs into the start platform (4 legs) and secure them.
3. Hook the second platform (2 legs at the front) into the start platform and lock it in place
4. Hook the third platform (2 legs at the front) into the second platform and lock it in place.
5. Tighten the lock. All done! Proceed identically when using the transport wheels dia.16 cm.

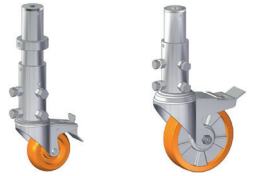
2. Insert the fully assembled RR legs into the start platform (4 legs) and secure them.





3. Hook the second platform (2 legs at the front) into the start platform and lock it in place

4. Hook the third platform (2 legs at the front) into the second platform and lock it in place.

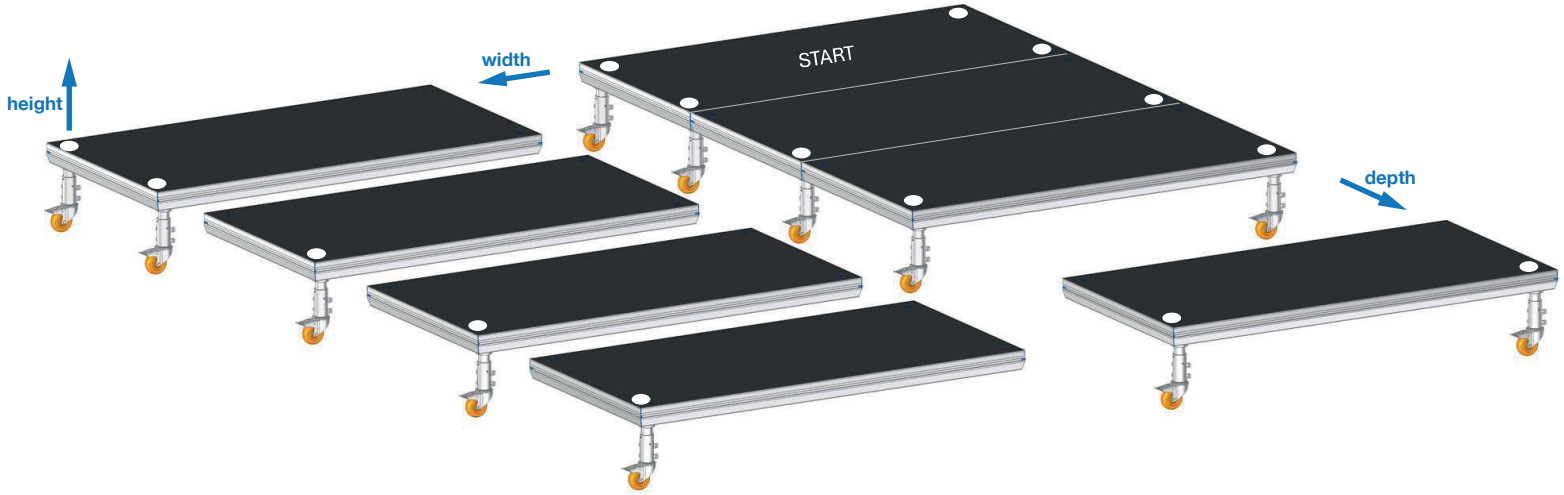


5 Tighten the lock. All done! Proceed identically when using the transport wheels dia.16 cm.

expansion possibilities of the nivtec rolling riser:

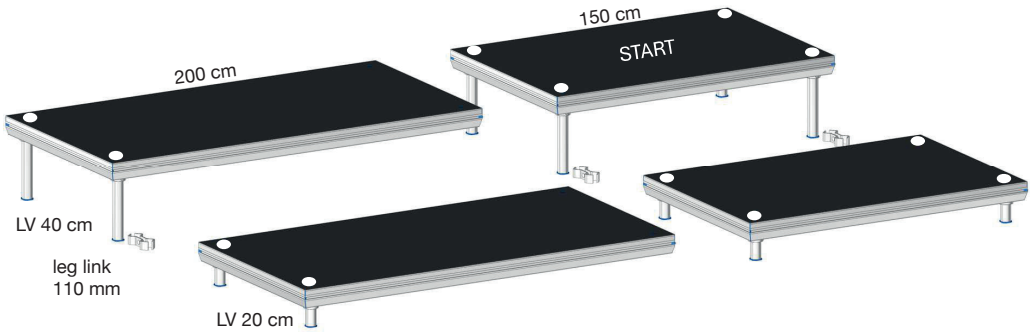
expansion in height from 40 to 60 cm
For stage height 60 cm, a rolling riser adapter that is 20 cm longer must be used. The set up is identical to that of height 40 cm.
Rolling risers up to max. 6 x 4 m are built in accordance with the nivtec principle 4 – 2 – 2 – 1.

expansion of rolling riser in width and depth to 400 cm wide and 400 cm deep
For the expansion in depth, hook in and secure another platform 200 cm wide (2 legs at the front). Hook in and lock another platform 100 cm wide (2 legs on the left). Hook in and lock two further inner platforms (1 leg) with both tongue sides 200 cm and 100 cm.



Chapter VIII. Gallery Set Up in accordance with the nivtec set up principle

2-step gallery, tier height 20 cm (tier height 40 cm) 350 cm wide



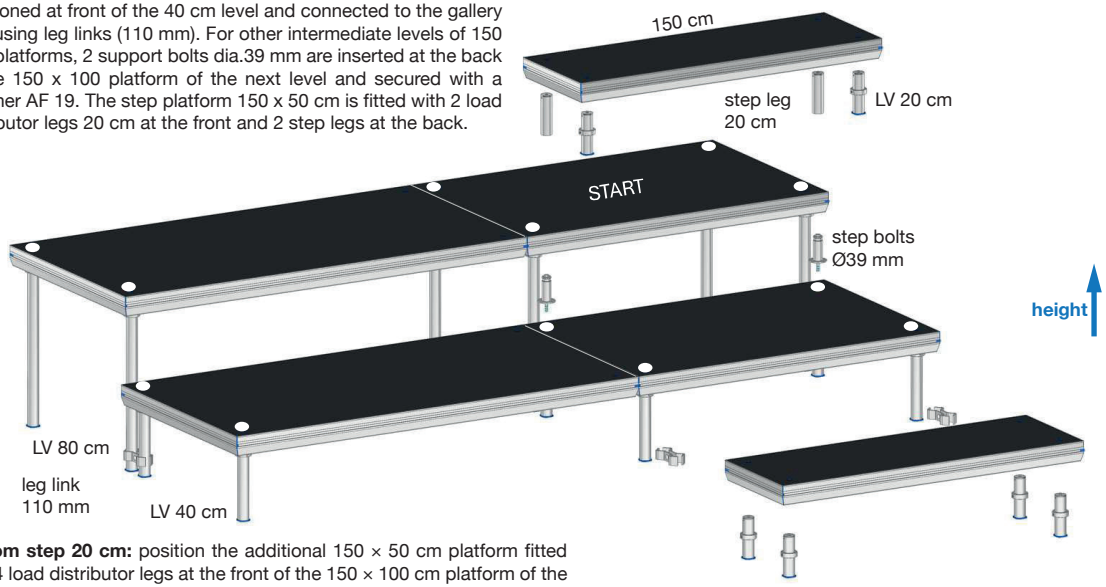
1. Galleries are firmly connected stages with depth 100 cm each.
2. Set up principle 4-2-2: position the highest start platform (4 legs), here 40 cm **(or 80 cm)**, at the rear right. Set up the highest row with additional platforms (2 legs on the left).
3. Add the next lower start platform (4 legs),here 20 cm (40 cm), at the front (L-shape). Add the other platforms (2 legs on the left).
4. Connect and secure all legs of the upper and lower step level directly above the floor using 1 leg link 110 mm (150 mm if Layher spindles are used). For gallery heights exceeding 80 cm, 2 leg links 110 cm (bottom and top) must be used to connect the 80 cm step level with the higher level
5. The leg distance selected must be maintained throughout the entire gallery.

stairways for seat galleries: minimum width 120 cm,
max. 10 seats to the side of the stairways, max. 20 seats between 2 stairways

gallery tier height 20 cm

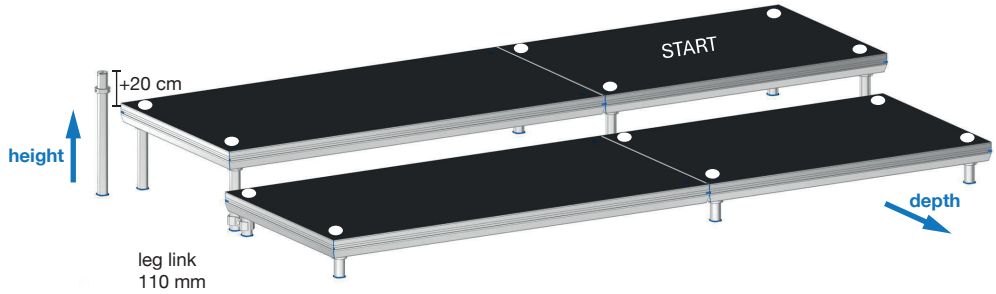
With nivtec, for gallery tier height 20 cm, the stairway can be realised at the side or in the centre with platforms 150 x 100 by placing it where the stairway is needed. This guarantees problem-free attachment of chair blocking devices in standard lengths 200 cm and 100 cm on platforms with width 200 and 100 cm.

For **galleries with tier height 40 cm**, a 150 x 50 cm platform is positioned at front of the 40 cm level and connected to the gallery legs using leg links (110 mm). For other intermediate levels of 150 x 50 platforms, 2 support bolts dia.39 mm are inserted at the back of the 150 x 100 platform of the next level and secured with a spanner AF 19. The step platform 150 x 50 cm is fitted with 2 load distributor legs 20 cm at the front and 2 step legs at the back.



Bottom step 20 cm: position the additional 150 × 50 cm platform fitted with 4 load distributor legs at the front of the 150 × 100 cm platform of the 40 cm level and connect the legs of the step level with the legs of the gallery using one 110 mm leg link for each of them.

expansion options for nivtec galleries:



height

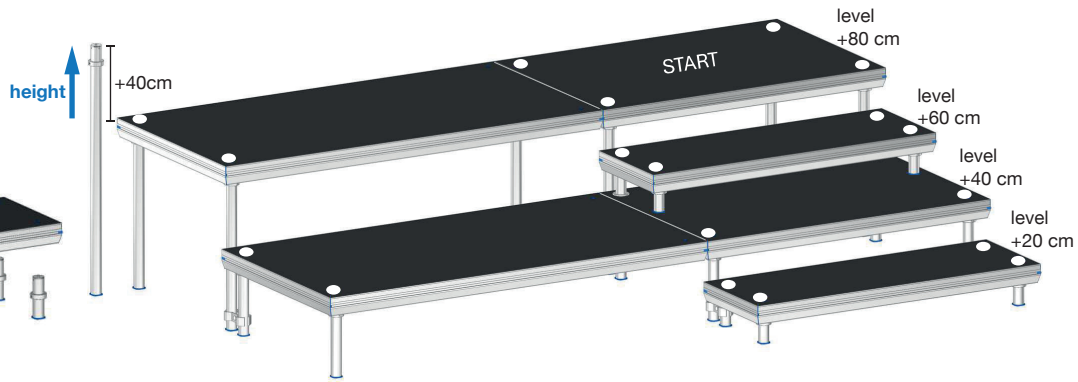
expansion in height from 2 steps to 3 steps:
The set up starts with the highest level 60 cm **(120 cm)**. **The set up is executed in accordance with the procedure described above**. The lower levels are positioned accordingly and all levels are connected.

width

expansion in width from 350 cm to 550 cm:
First add another platform to the highest one, then to the next lower row of platforms (2 legs on the left). Install and secure the legs of all levels with 1 leg link.

depth

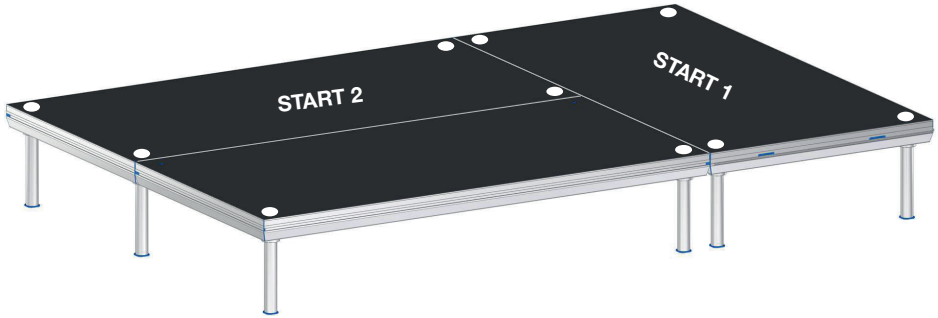
expansion in step depth from 100 cm to 200 cm:
An expansion of the level depth stands for a combination of the set up of stages and galleries (adjoining stages of the same height at a depth of 200 cm, connected by leg links). The set up starts at the highest row with a start platform (4 legs) and is supplemented at the edge with further platforms at the front (2 legs at the front) and to the left (2 legs at the left). All further platforms in the front row require only 1 leg. The next lower level is set up identically. The levels are connected using leg links.



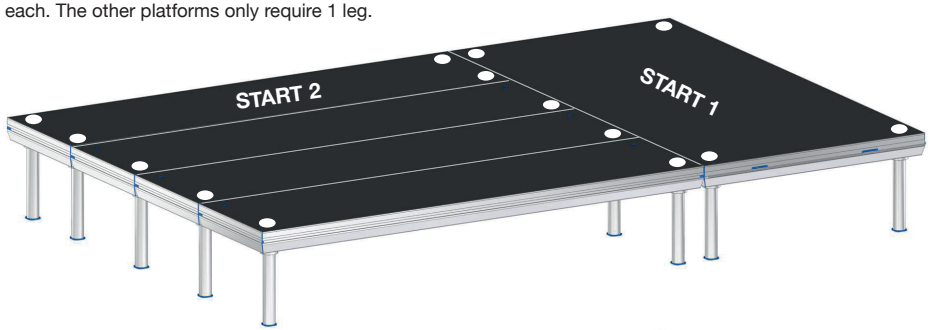
nivtec-ingeniously simple – Edition 2026 offers nivtec users a large selection of set up schemes of nivtec galleries with a tier height 20 cm & 40 cm as well as the linking options of stairways for galleries.

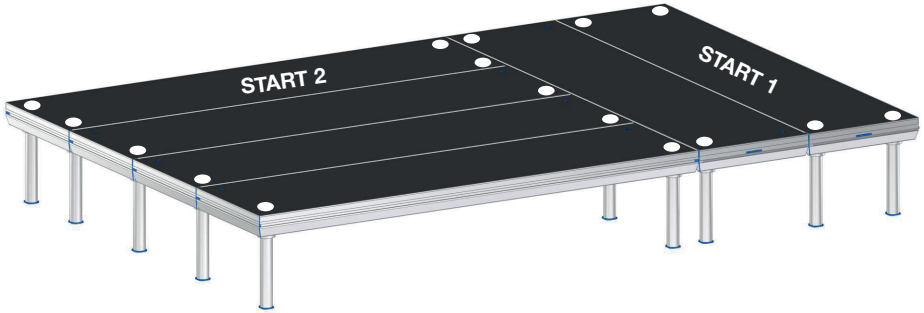
Chapter IX. Installation of legs & platforms deviating from the standard

If the adapter laths are to be used as a link between two nivtec stages, proceed according to the nivtec set up principle when continuing set up (START 2): the first platform is placed on 4 legs, the edge platforms at the back and to the right on 2 legs each. The other platforms only require 1 leg. The adapter laths merely provide a connection, but do not carry any load.

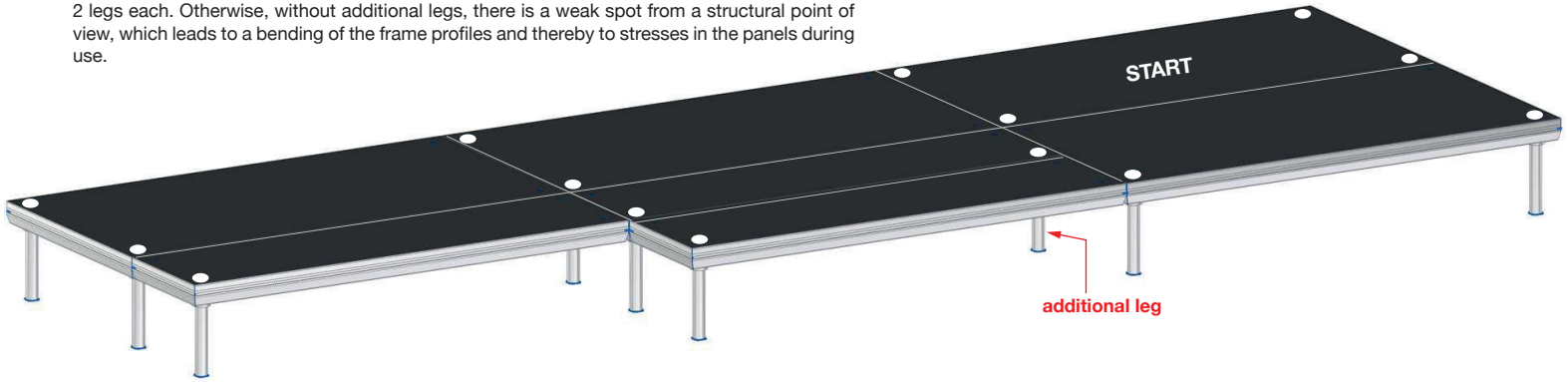


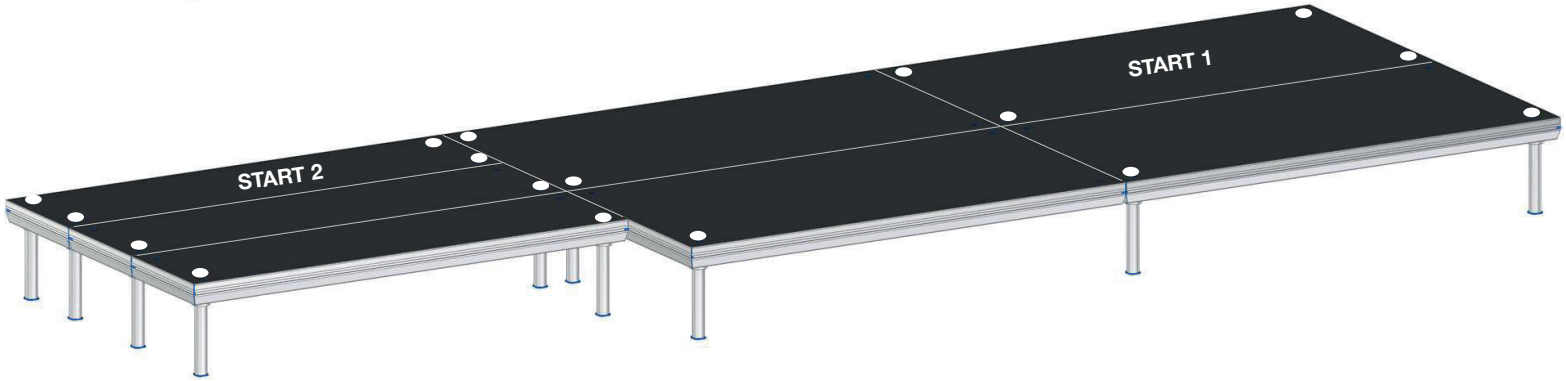
The same applies when attaching the **nivtec stage to a fix object.** After screwing the adapter lath to the fix object, proceed according to the nivtec set up principle when constructing the stage: the first platform is placed on 4 legs, the edge platforms at the back and to the right on 2 legs each. The other platforms only require 1 leg.





Stages with uneven stage sizes are often started in the depth (START 1) and then continued in the width. For this, the platforms adjoined to the left are hooked into the 200 cm groove side of the cross positioned platform with its short tongue side, e.g. 100 cm or 50 cm, (START 2). In this case, additional legs must be installed. It is best to place the first row with the first platform (START 2) on 4 legs in accordance with the nivtec principle and then add all other platforms on 2 legs each. Otherwise, without additional legs, there is a weak spot from a structural point of view, which leads to a bending of the frame profiles and thereby to stresses in the panels during use.





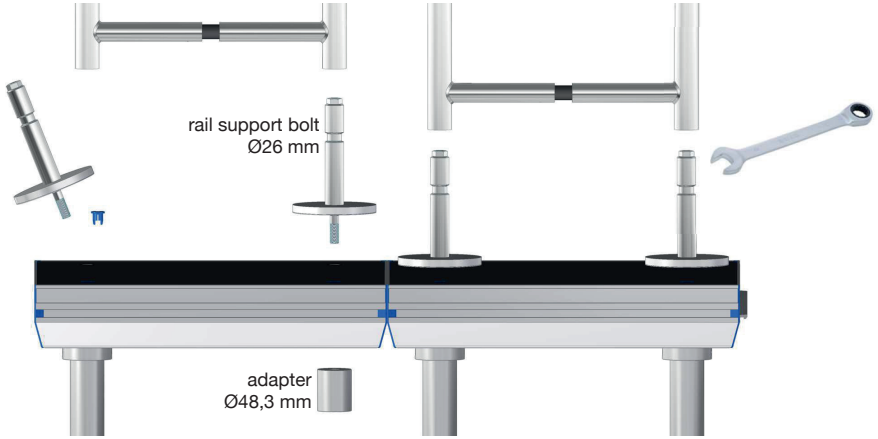
If an extension, a stairway or a ramp with a depth of 150 cm consisting of platforms with other dimensions is to be added to the standard 200 x 100 cm platforms, continue to proceed as described above (START 2).

If rails are to be installed, 1 platform 200 x 100 cm must be replaced by 2 platforms 200 x 50 cm at the planned starting position during stage set up. Otherwise the seamless connection between the stage rails and the rails of the extension, stairway or ramp at an angle of 90° is not possible – see the image below. If this stipulation is not adhered to during set up of the stage, the depth of the extension, stairway or ramp must be increased to 200 cm.

Cross stages
For stages with rare special shapes such as the cross stage, the nivtec principle must be observed in all directions from the respective start platform. As a result, a few more legs are used, since otherwise a secure connection as with a standard stage cannot be guaranteed. It is better to have two surplus legs than missing one leg.

Chapter X. Installation of rails

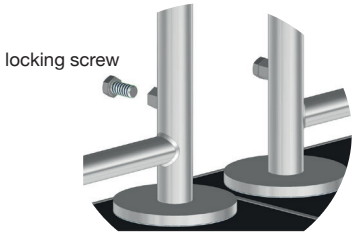
Attaching the rail accessories



Remove the blue caps.
For leg supports without a leg, insert the adapter for rail attachment, Art. No. 310 20 0, into the leg support and secure.

Screw in and tighten the rail support bolt, Art.No.310 01 0.

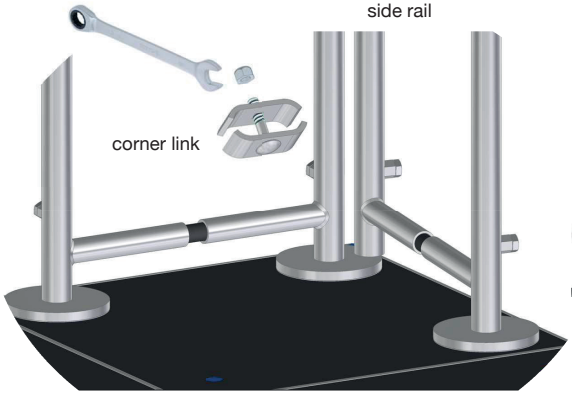
Install the stage safety rail at the back first.

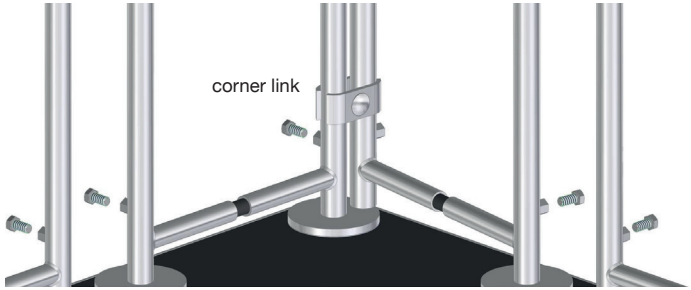


Place the rail on the rail support bolts.
The locking screws must be located at the outside of the rail.
Tighten the locking screws at the bottom of the rail.

As a connection between the rails in the upper area, install the rail link 150 mm, reinforced, Art. No. 310 10 5 and tighten.

Corner link:

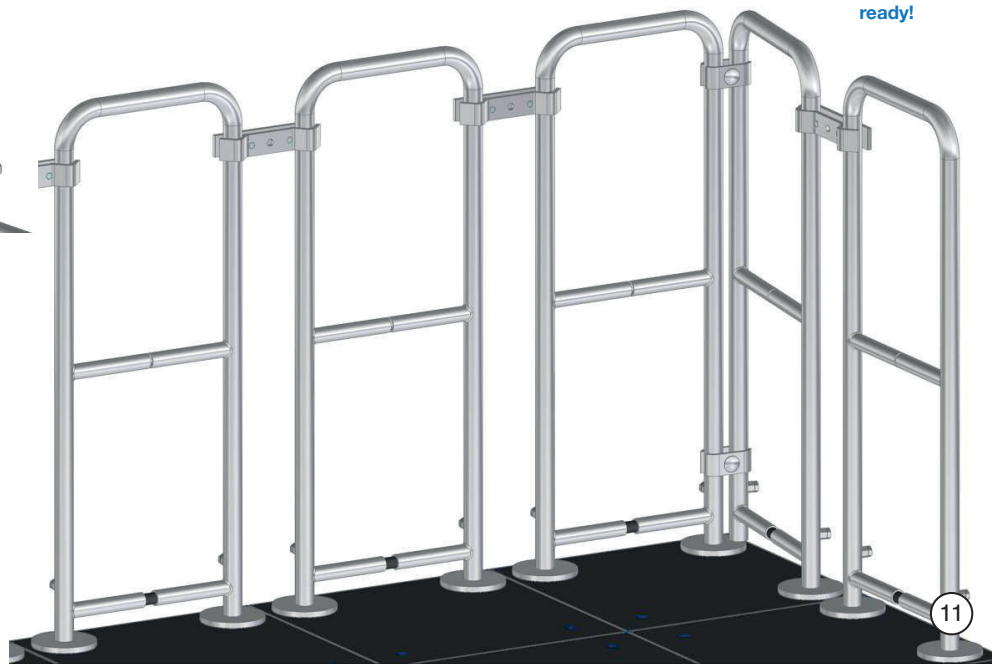




At the rear, position the first side rail next to the existing rail, attach it to a rail support bolt at the front and connect it to the rear rail with two corner links, Art No. 310 21 0, per corner: Place the metal clamps around the rail tubes, insert the locking screw between the rails and tighten.

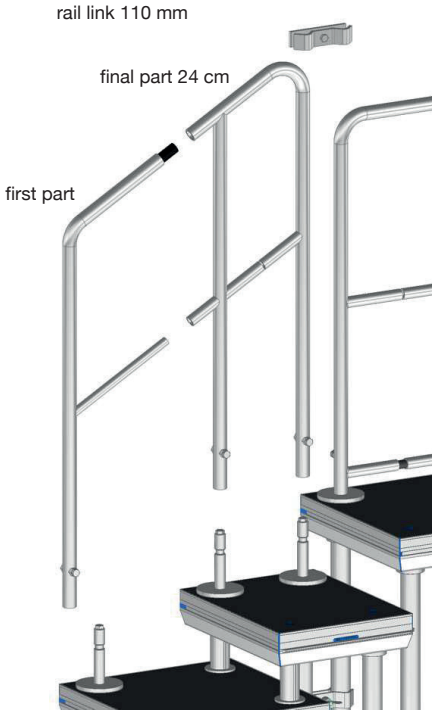
Please note!

required accessories per rail:
2 support bolts dia. 26 mm, Art. No. 310 01 0
1 adapter dia. 48.3 mm, Art. No. 310 20 0
1 rail link, 150 mm, reinforced, Art. No. 310 10 5
For 2 stage corners, the following is needed:
4 corner links, Art. No. 310 21 0.



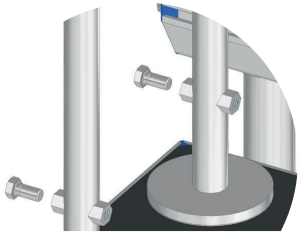
Thus, all provions have been taken for the gap-free set up of rails for nivtec stage and gallery constructions.

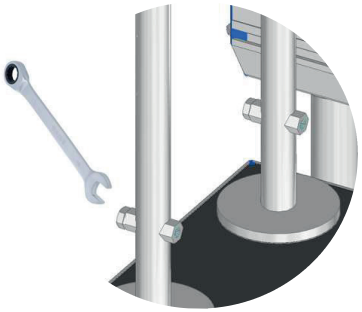
attaching the stairway safety rail:



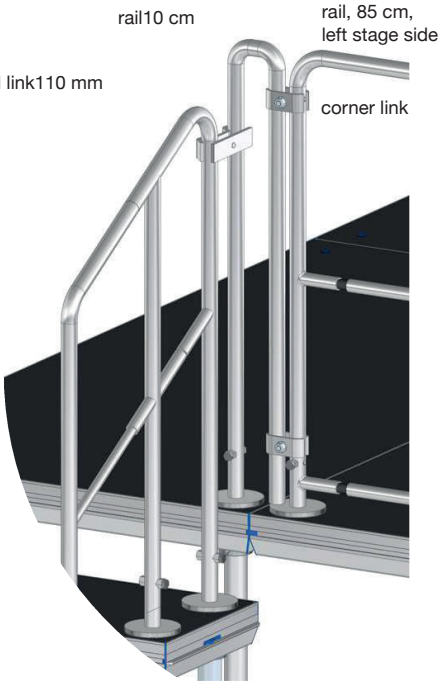
Plug the first part (+ middle part) + final part together.

Place the complete rail on the rail support bolts.
Insert and secure the rail link 110 mm,
Art. No. 310 11 0.

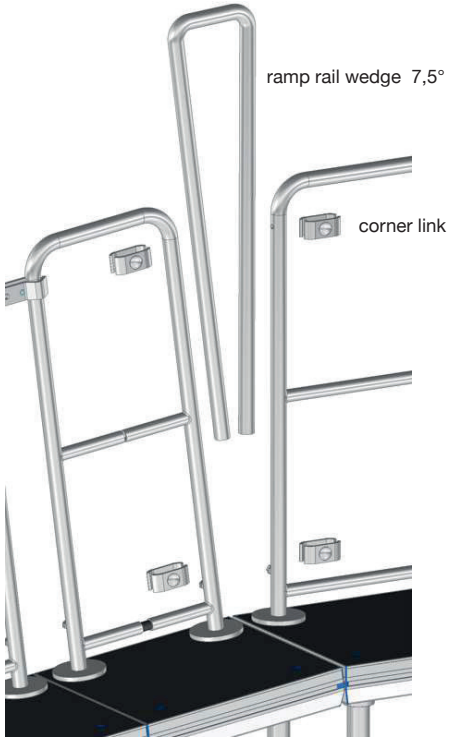




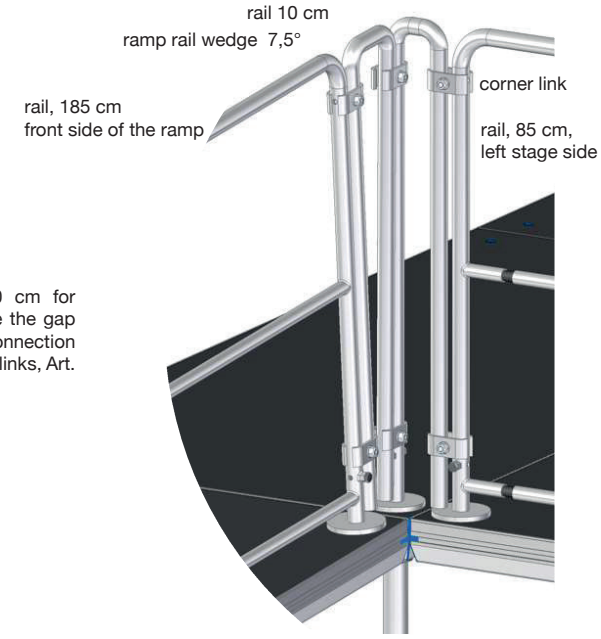
Tighten the locking screws on the outside of the stairway rail.



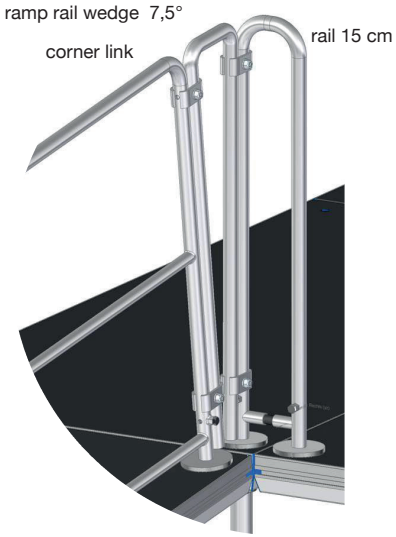
Connection to the side rail of the stage at a 90° angle:
Screw the support bolts, Art. No. 310 01 0, into the stage platform, add rail 10 cm,
connect with 2 corner links, Art. No. 310 21 0, to the stage rail and 1 rail link of 110 mm, Art. No. 310 11 0, to the stairway rail.



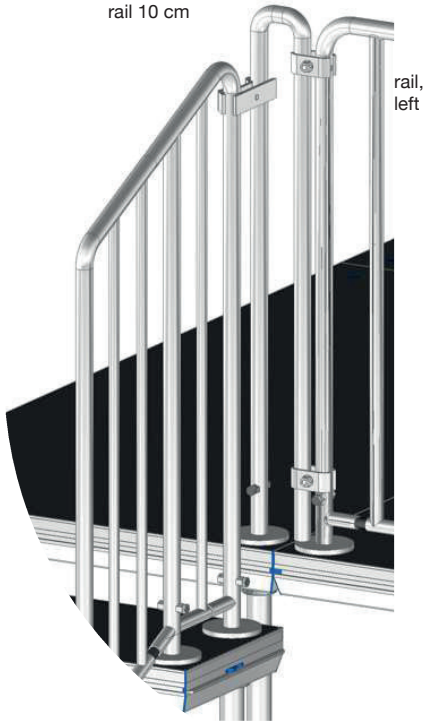
Ramp rail wedges, with a height of 100 cm for gradients 7.5°, 5° and 3.44° are used to close the gap between the ramp rail and the stage rail. The connection is executed on both sides by means of 2 corner links, Art. No. 310 21 0, for each side.

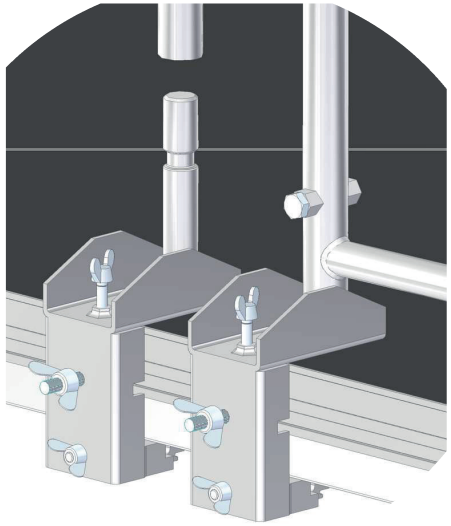


Ensure that the rails are secured to each other with rail links and with corner links at the corners.



The installation of safety rails VERTICAL BARS for stage & stairway safety rails VERTICAL BARS 110 cm, and safety rails for stage & stairway safety rails 100 cm, is executed in accordance with the same scheme.





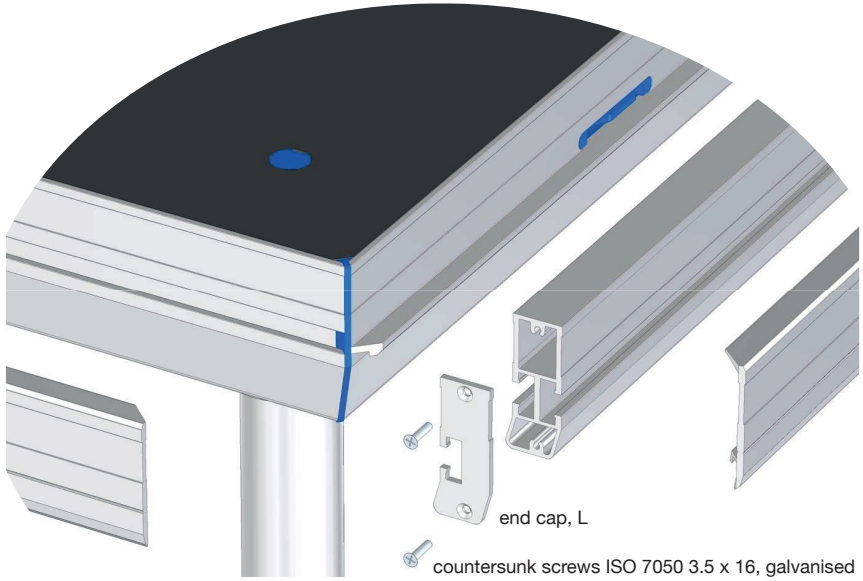
Variable rails 100 cm, with variable width, serve to close gaps. The special support bolt dia. 26 mm, Art. No. 310 02 0, is generally used for rail configurations where variable rails or special rails are used.

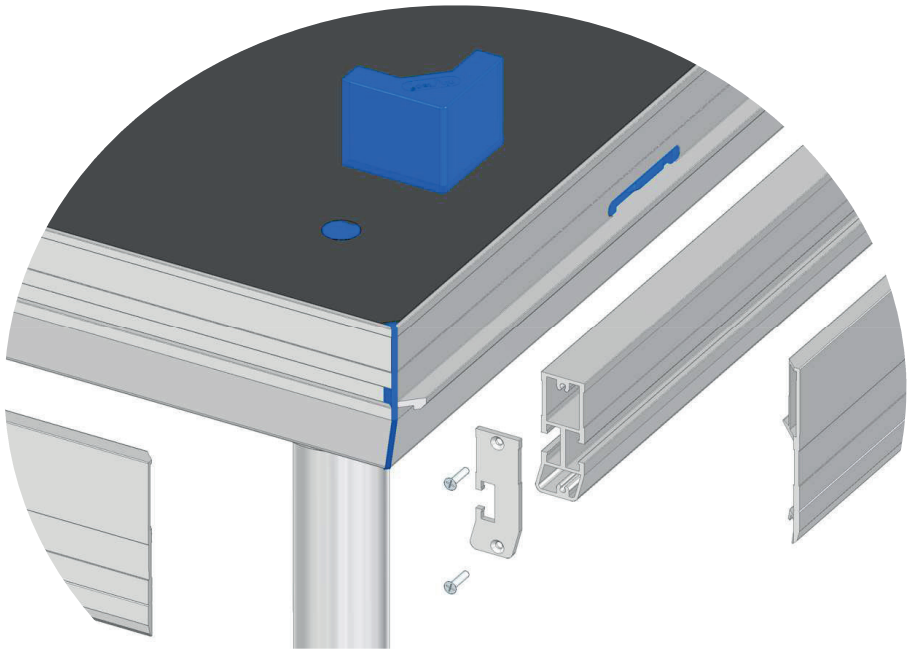
Chapter XI. Installation of accessories: Function laths & Textile lining

Function laths

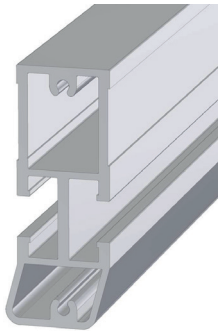
Adapter laths (called reversal profiles)

are attached to the tongue sides and locked with Klick-Klack mechanisms. This allows you to convert the tongue side into a groove side in just a few simple steps. Lining laths or anti-tumbling boards can be attached with ease. If the adapter laths are to be used as a connection between two nivtec stages, proceed in accordance with the nivtec set up principle when continuing set up (START 2): the first platform is placed on 4 legs, the edge platforms at the rear and the right on 2 legs each. The other platforms only require 1 leg. The adapter laths merely provide a connection, but do not carry any load. The new version is equipped with replaceable plastic knobs that are firmly seated in a borehole. The new, precision-fit end caps are attached on the right and on the left by means of 2 screws and conceal the inside of the profile.



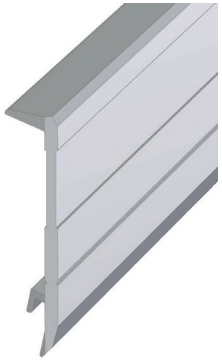


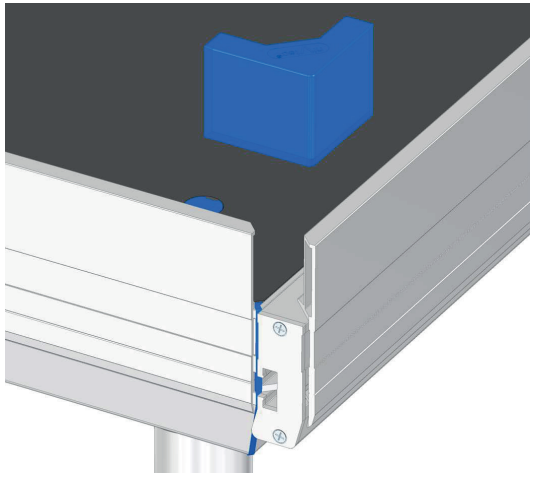
standard sizes:
Art. No. 410 01 0, length: 100 cm and Art. No. 410 02 0, length: 200 cm
Art. No. 406 10 1, end cap, left L, incl.2 countersunk screws ISO 7050 3.5 x 16, galvanised
Art. No. 406 10 2 end cap, right R, incl. 2 countersunk screws ISO 7050 3.5 x 16, galvanised



Lining laths

are simply hooked into the groove sides of the platform. A 2 cm high recess allows the Velcro tape to be affixed for quick attachment of textile linings.
standard sizes: Art. No. 407 20 0, length: 100 cm and Art. No. 407 21 0, length: 200 cm
.

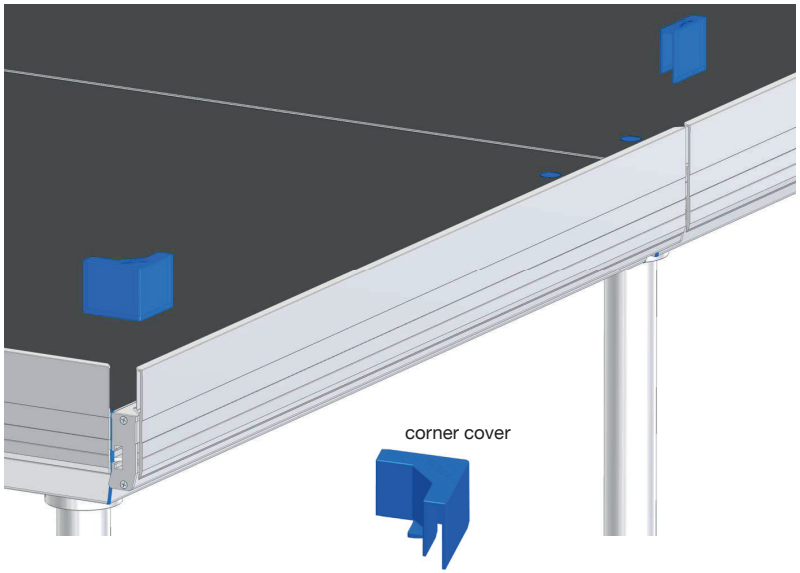




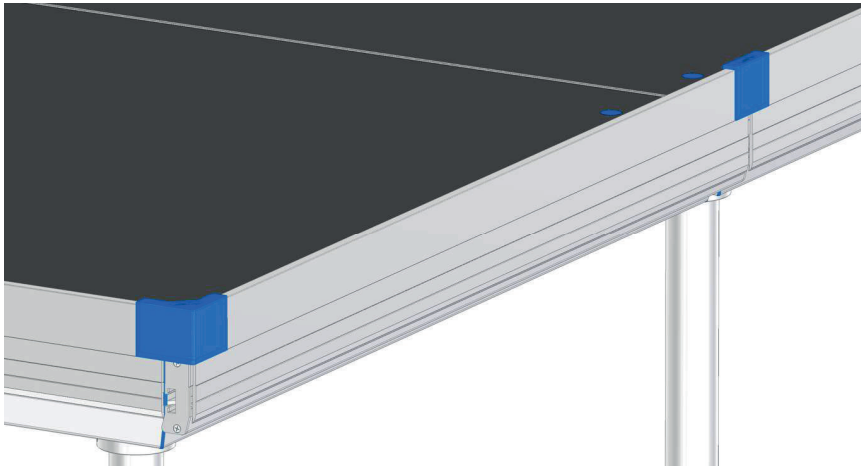
Anti-tumbling board + lining lath 2-in-1

are simply hooked into the groove sides of the platform.
A 2 cm high recess allows the Velcro tape to be affixed for quick attachment of textile linings.
First attach the adapter lath to the tongue sides, then hook in the anti-tumbling board.
standard sizes: Art. No. 409 20 0, length: 100 cm and Art. No. 409 02 0, length: 200 cm.
The use of gap covers, Art. No. 409 50 5, and corner covers, Art. No. 409 50 1, made of blue plastic at the seams provides continuous protection of the stage.

Textile lining

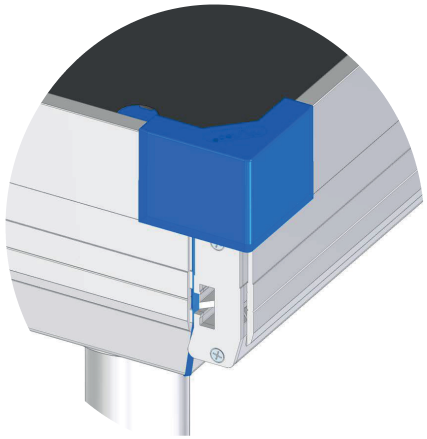


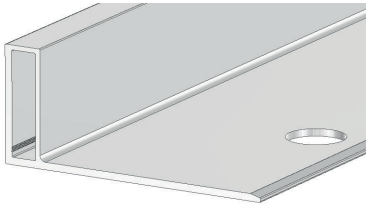
gap cover

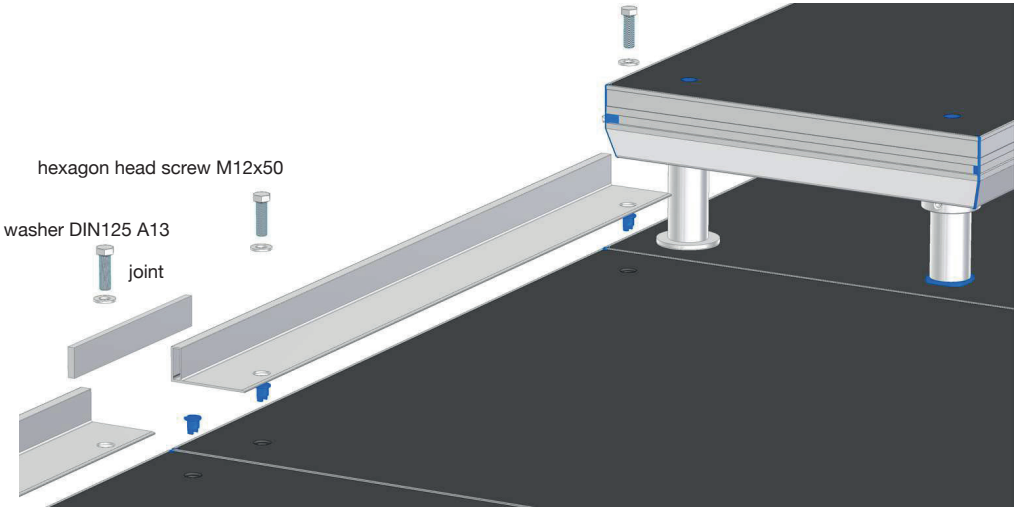


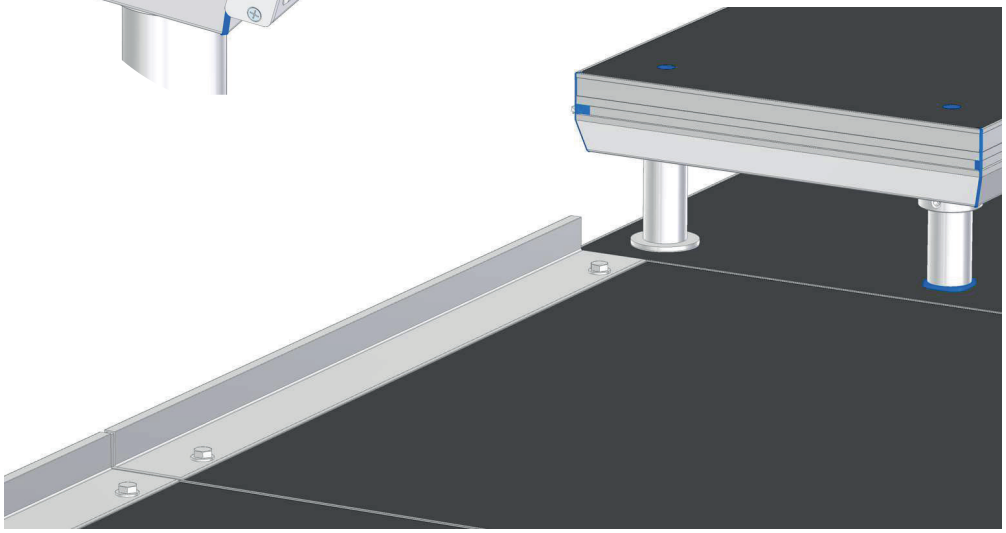
attaching the chair blocking devices to the platform surface

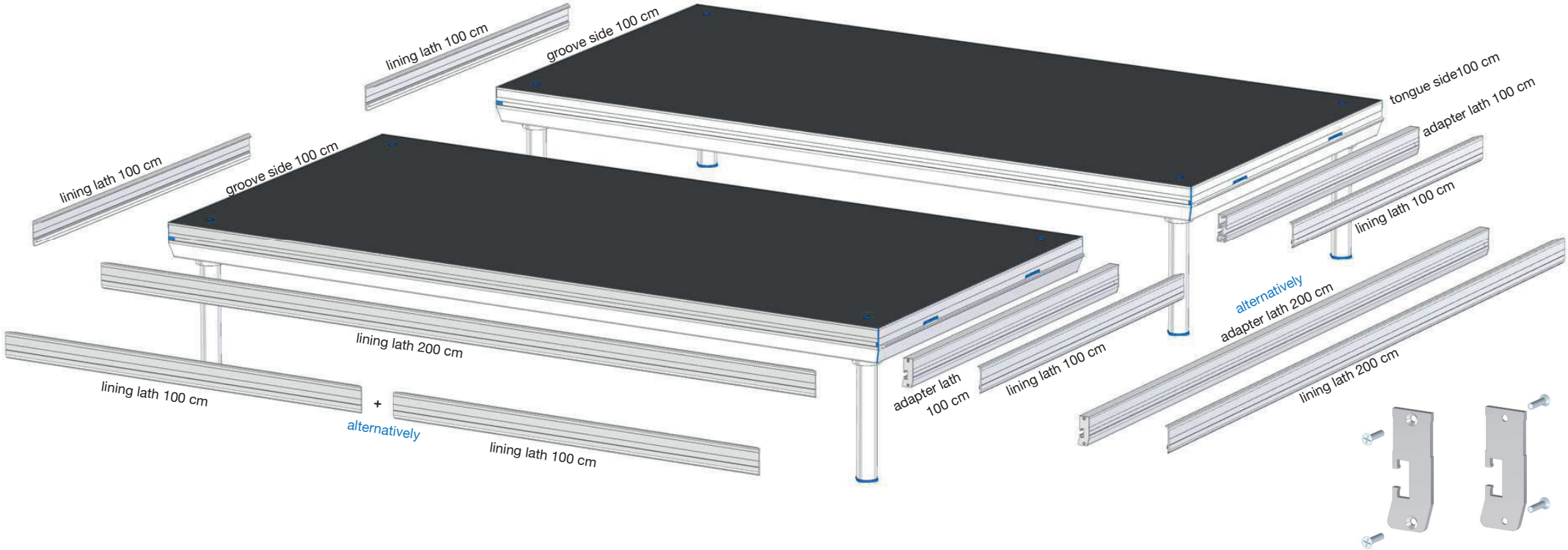
Remove the blue caps.
For leg supports without a leg,
insert the adapter for rail attachment,
Art. No. 310 20 0, into the leg support
and secure.
Screw on the chair blocking device on both sides with a washer DIN125 A13 and a hexagon head screw M12x40 on each side, insert the joints, Art. No. 704 03 0, at the side, slide on and install the next chair blocking device.
standard sizes: Art. No. 705 01 0, length: 100 cm and Art. No. 705 02 0, length: 200 cm.



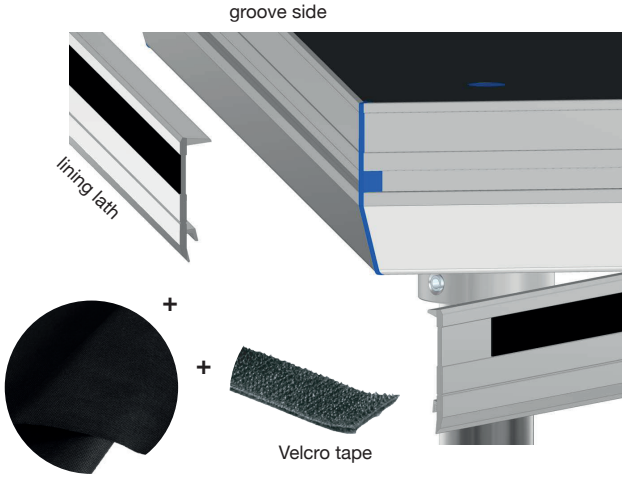


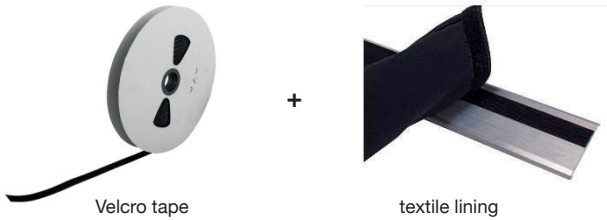




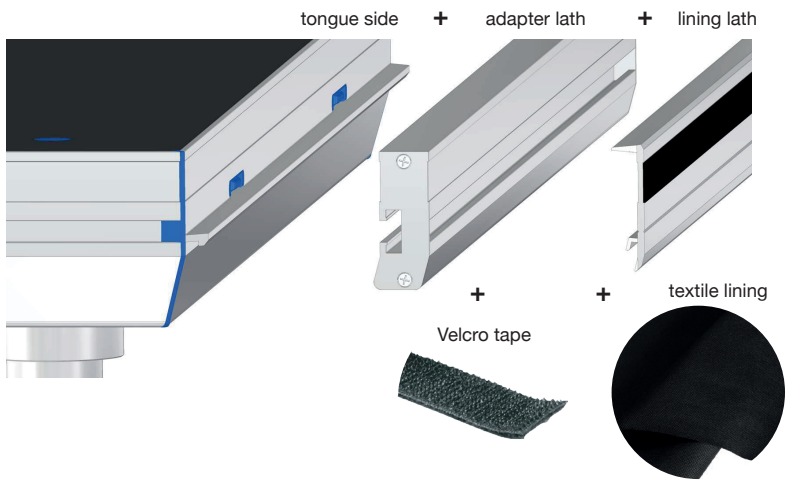


attachment to the groove sides of the nivtec stage





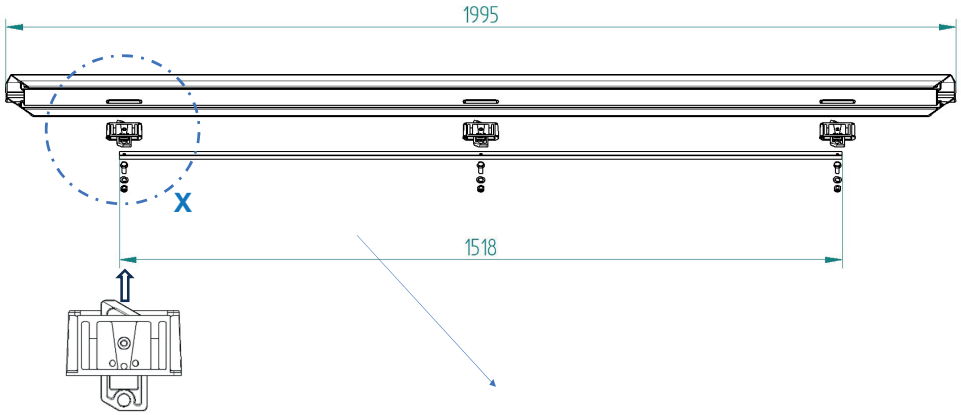
attachment to the tongue sides of the nivtec stage



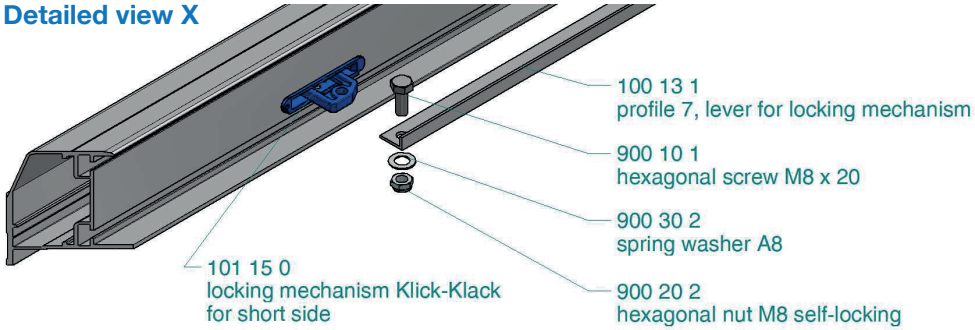
textile lining

Chapter XII. Installation of spare parts

Assembly Instructions for replacing a spare part:
plastic locking mechanism Klick-Klack + lever for locking mechanism (short side)



Detailed view X

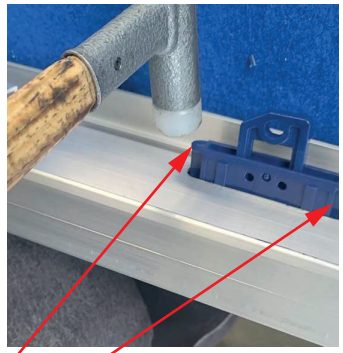


1. Place the system platform on its back

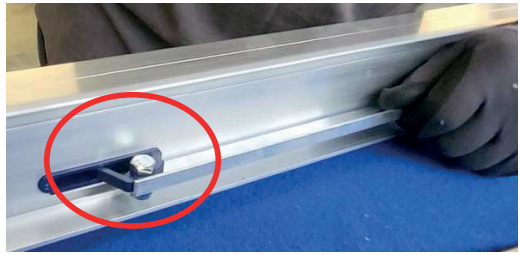
2. Loosen screws and nuts using an open-end spanner

3. Remove the lever for locking mechanism

4. Pry the housing out using a screwdriver



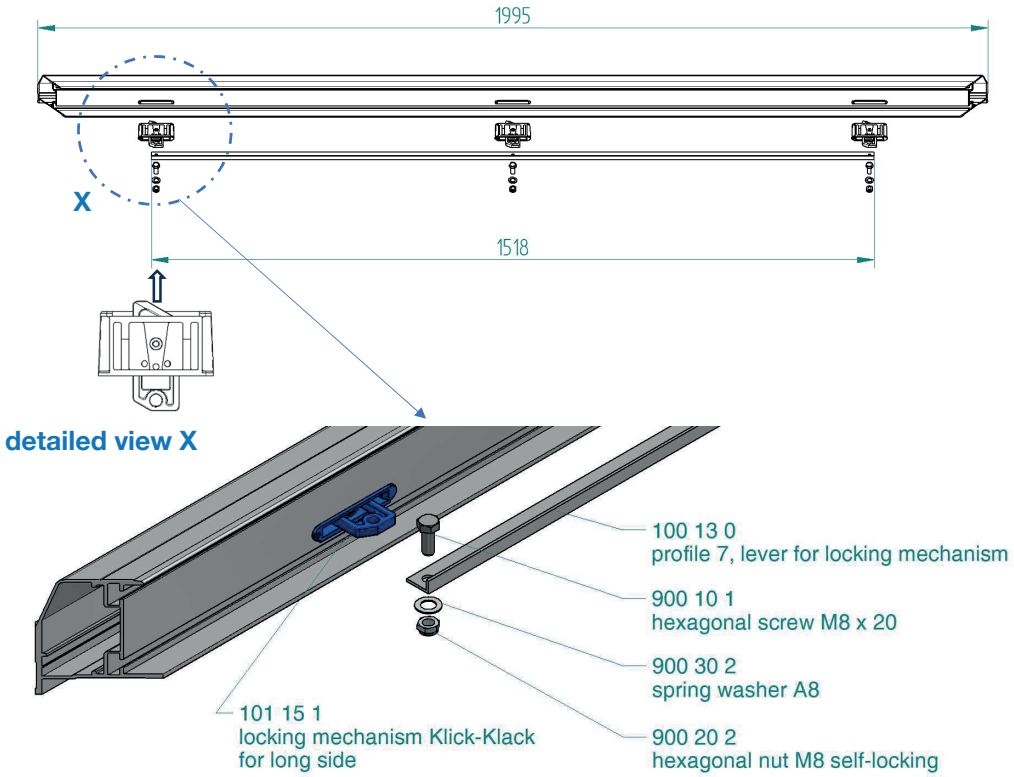
5. Insert the new Klick-Klack locking mechanism in the correct position in the slotted hole and alternately hammer left/right with a rubber mallet



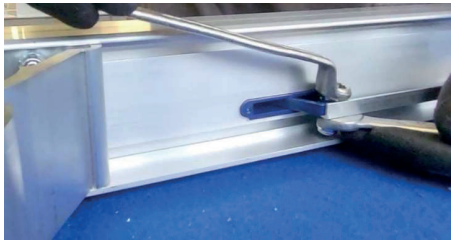
6. Put all parts together, see detailed view X

Attention:
Do not tighten the nut down very firmly, as the connection between the lever for locking mechanism and the locking lever must remain movable

Assembly Instructions for replacing a spare part:
plastic locking mechanism Klick-Klack + lever for locking mechanism (long side)



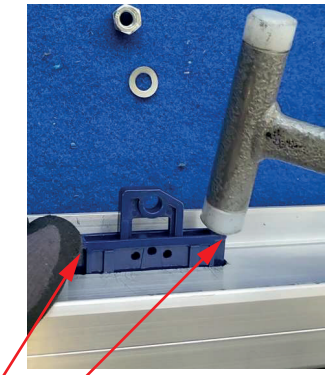
1. Place the system platform on its back



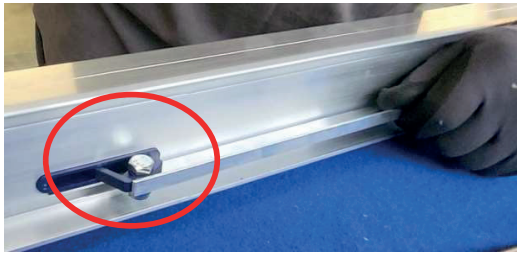
2. Loosen screws and nuts using an open-end spanner

3. Remove the lever for locking mechanism

4. Pry the housing out using a screwdriver



5. Insert the new Klick-Klack locking mechanism in the correct position in the slotted hole and alternately hammer left/right with a rubber mallet



6. Put all parts together;
see detailed view X

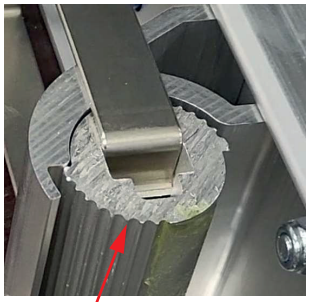
Attention:
Do not tighten the nut down firmly, as the connection between the lever for locking mechanism and the locking lever must remain movable

Assembly Instructions for replacing a spare part: eccentric clamping lever + strap + spring

1. Place the system platform on its back
2. Use a screwdriver to loosen and remove the spring

3. Pull the strap for the leg support upwards and remove it

4. Remove the eccentric clamping lever



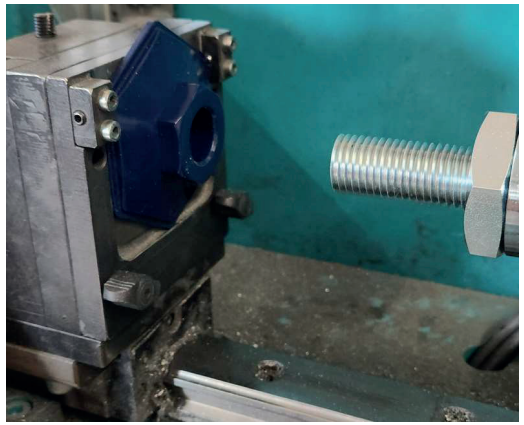
5. Put the parts back together again:

Attention:
First position the eccentric clamping lever exactly as shown.

6. Then install the strap exactly as shown.

7. And then install the spring as shown.

Assembly Instructions for replacing a spare part: base plate of the levelling leg & the extension leg

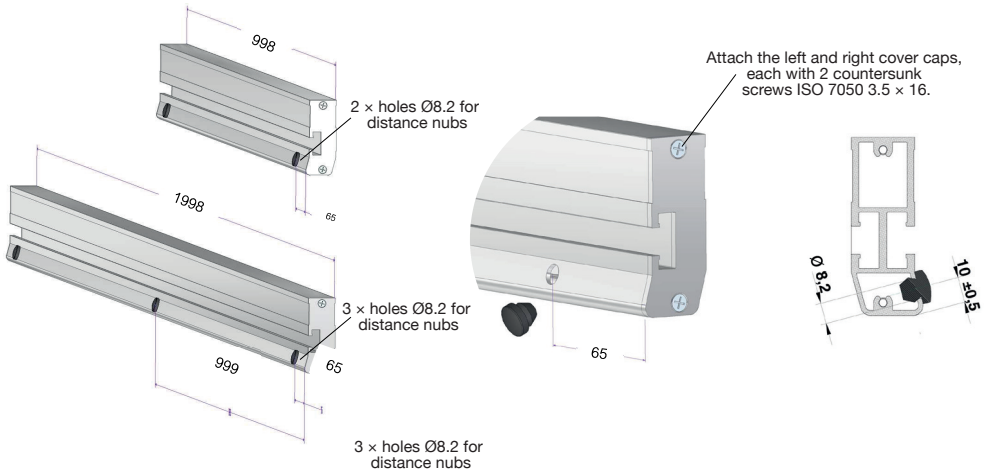


Press in using a device (in-house).

Hammer onto a spindle to approx. 12 mm

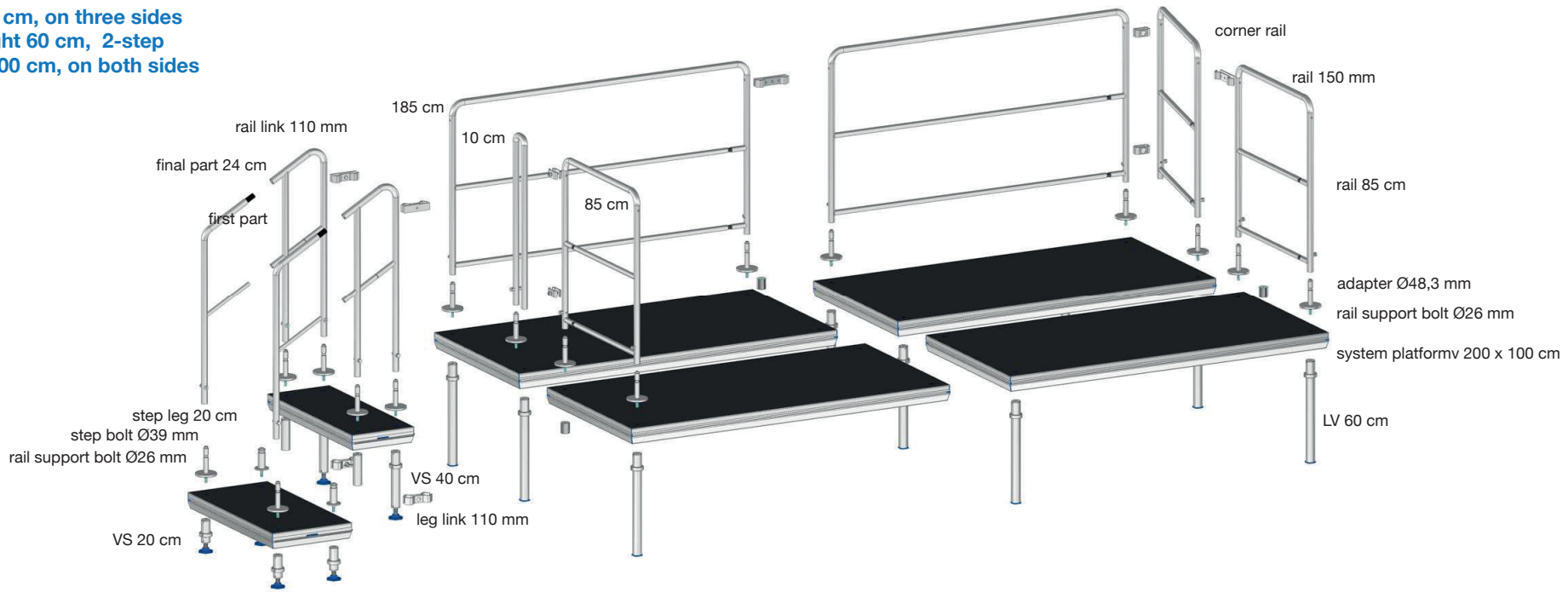
Assembly Instructions for retrofitting the adapter lath

The new version of the adapter lath is equipped with replaceable distance nobs that sit firmly in a borehole.
The new, precision-fit end caps can be attached on the right and on the left.
Both of these new features can be retrofitted.

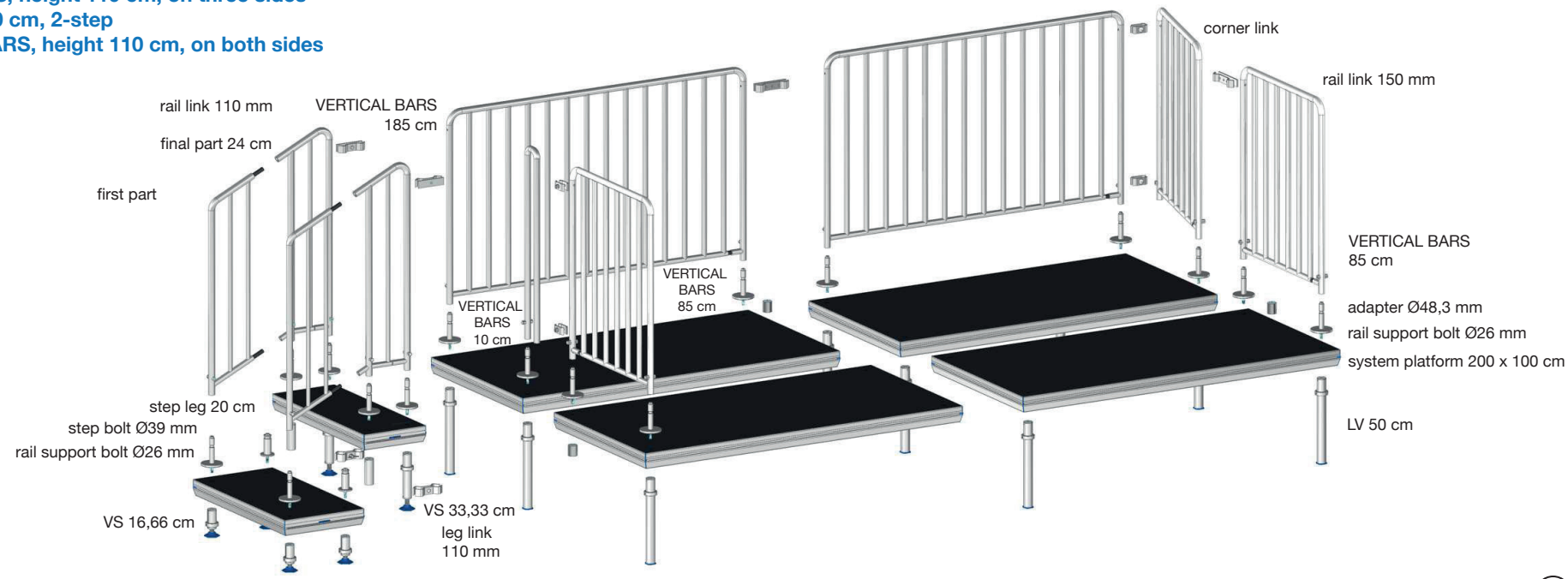


Chapter XIII. nivtec staging system in use – exploded view drawings

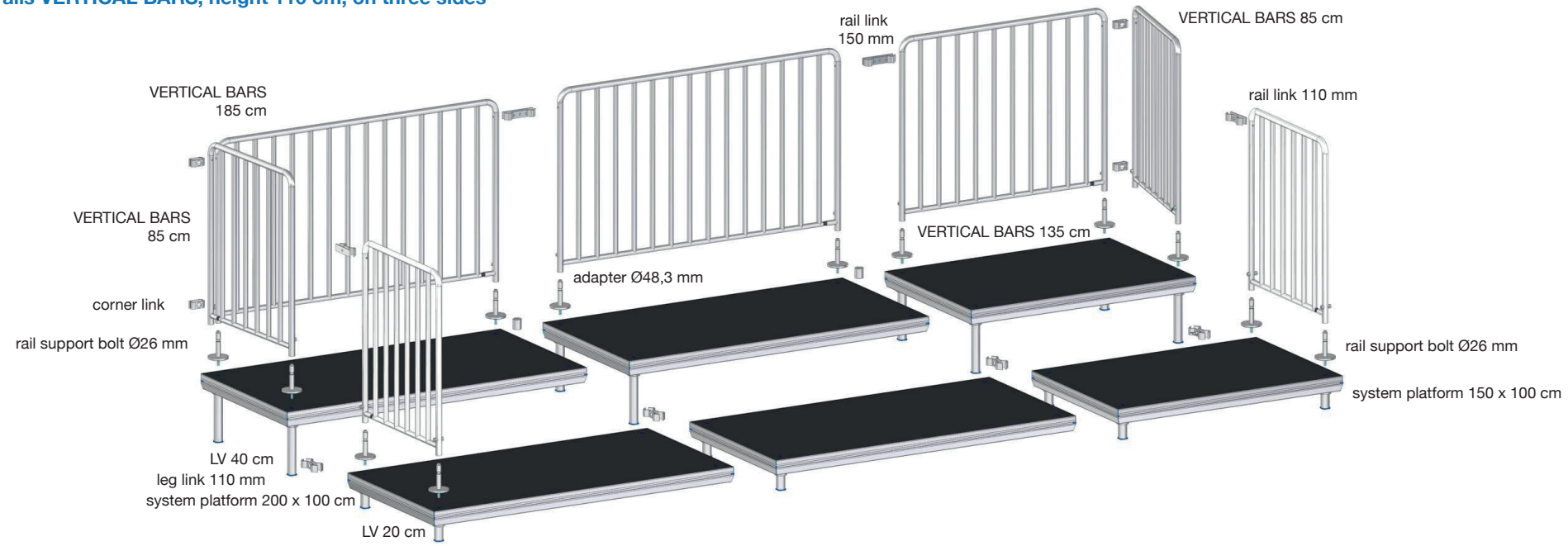
stage, height 60 cm
safety rails, height 100 cm, on three sides
stairway for stage height 60 cm, 2-step
stairway rails, height 100 cm, on both sides



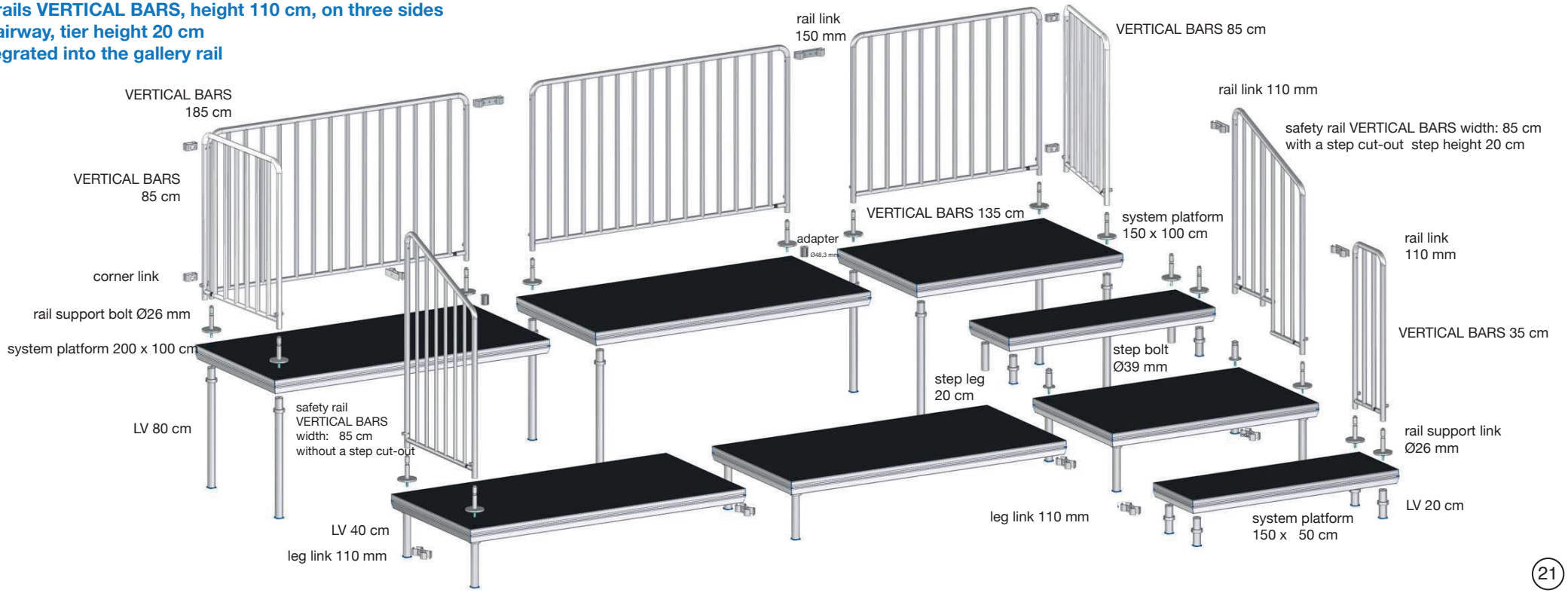
stage, height 60 cm
safety rails VERTICAL BARS, height 110 cm, on three sides
stairway for stage height 60 cm, 2-step
stairway rails VERTICAL BARS, height 110 cm, on both sides



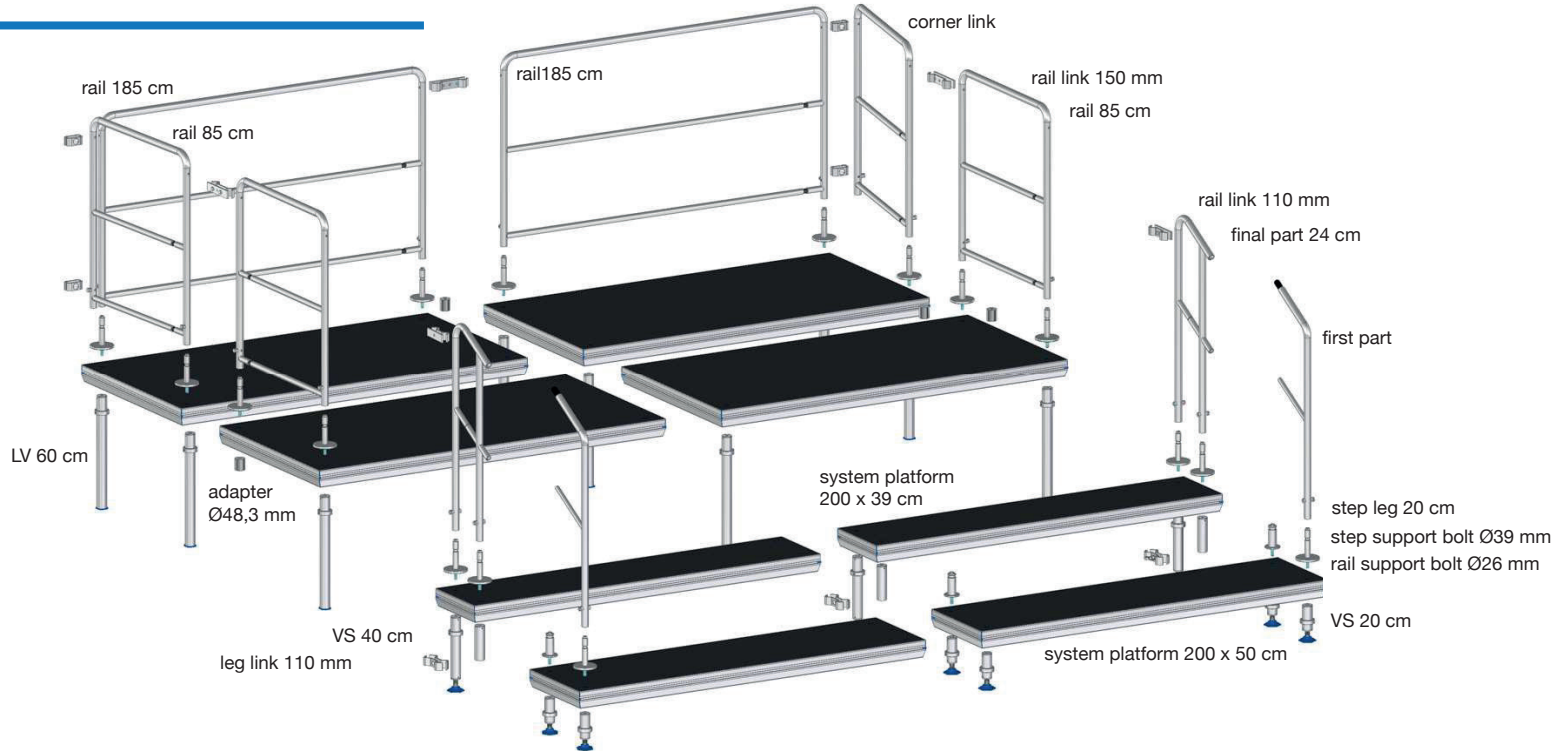
gallery, 2-step, tier height 20 cm
safety rails VERTICAL BARS, height 110 cm, on three sides



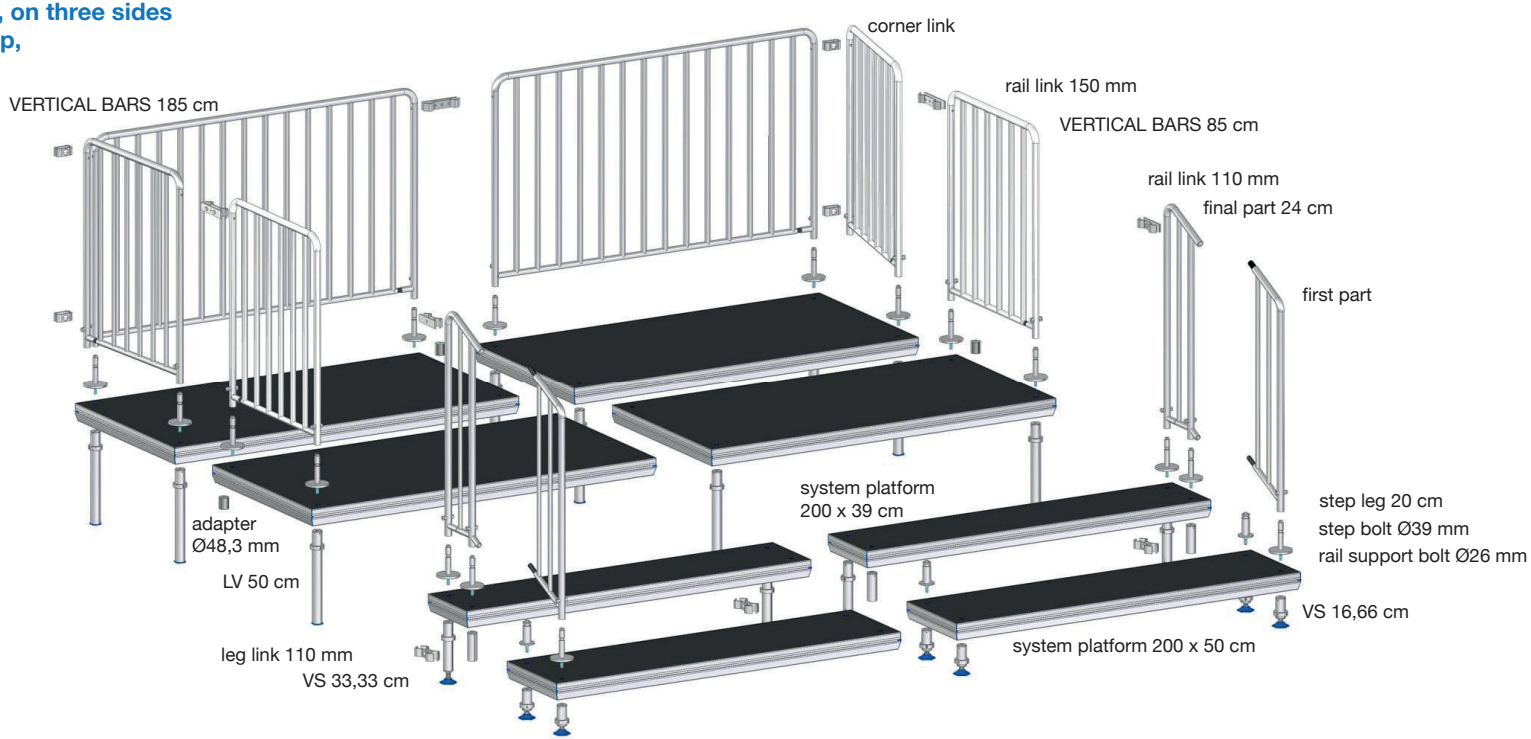
gallery, 2-step, tier height 40 cm
safety rails VERTICAL BARS, height 110 cm, on three sides
side stairway, tier height 20 cm
rail integrated into the gallery rail



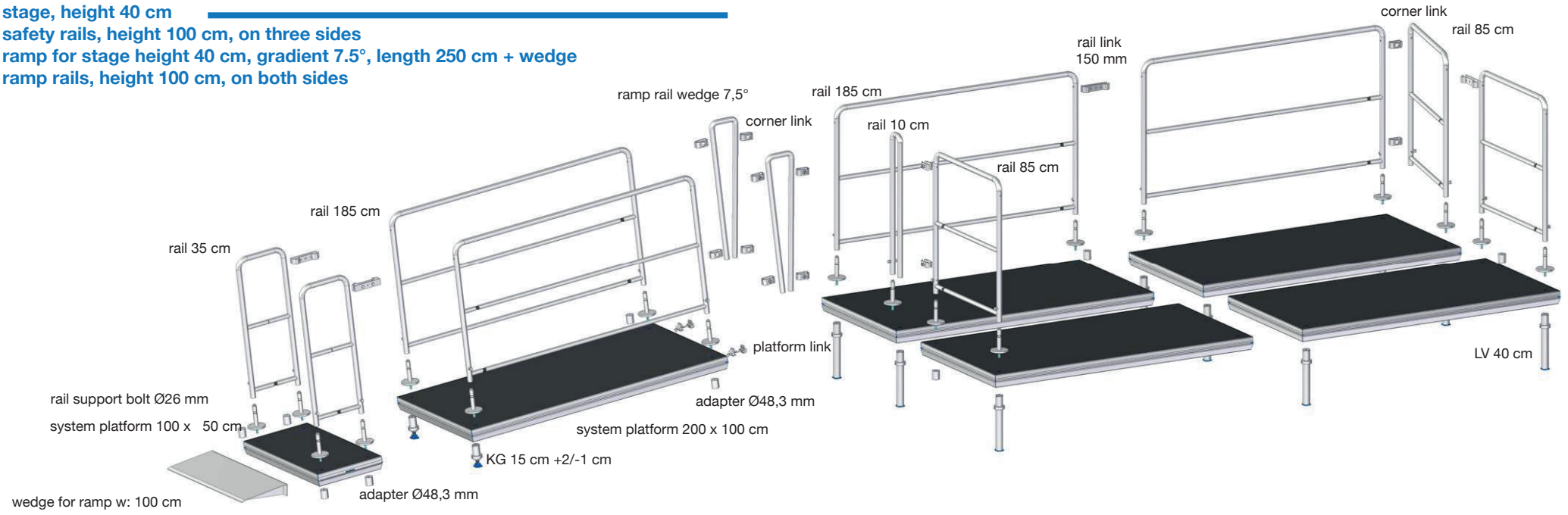
stage, height 60 cm
safety rails, height 100 cm, on three sides
show stairway for stage height 60 cm,
2-step stairway rails,
height 100 cm, on both sides



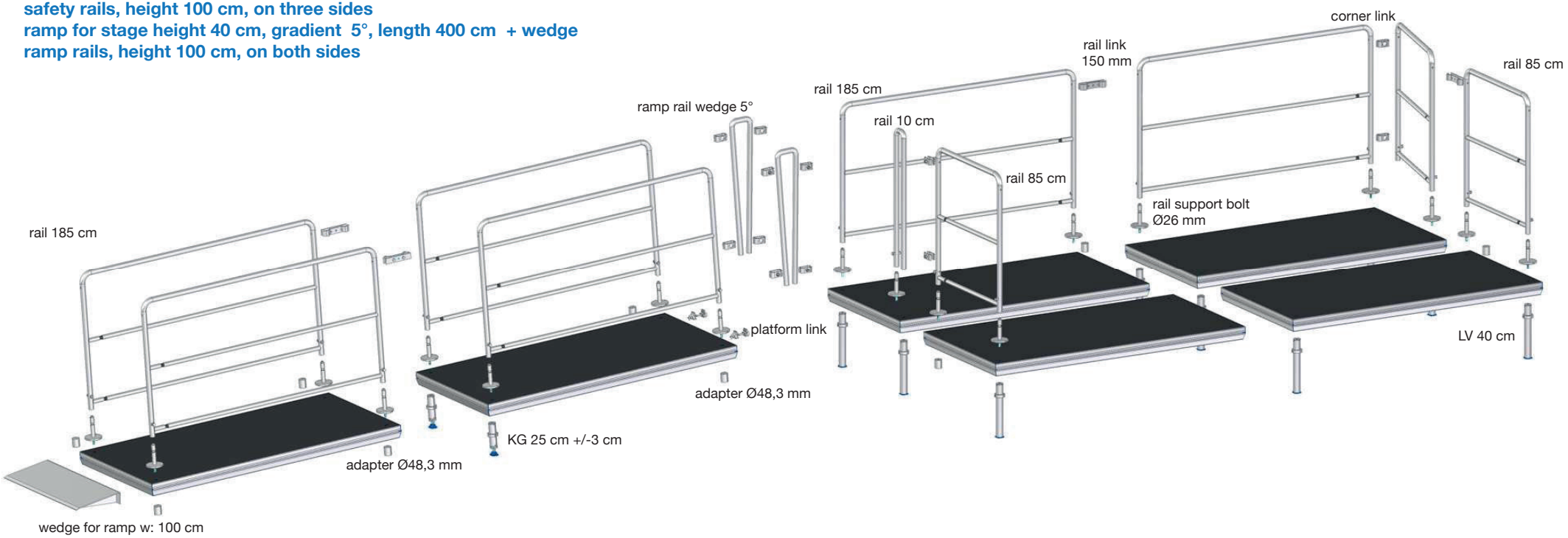
stage, height 60 cm
safety rails VERTICAL BARS, height 110 cm, on three sides
show stairway for stage height 60 cm, 2-step,
stairways rails VERTICAL BARS,
height 110 cm, on both sides



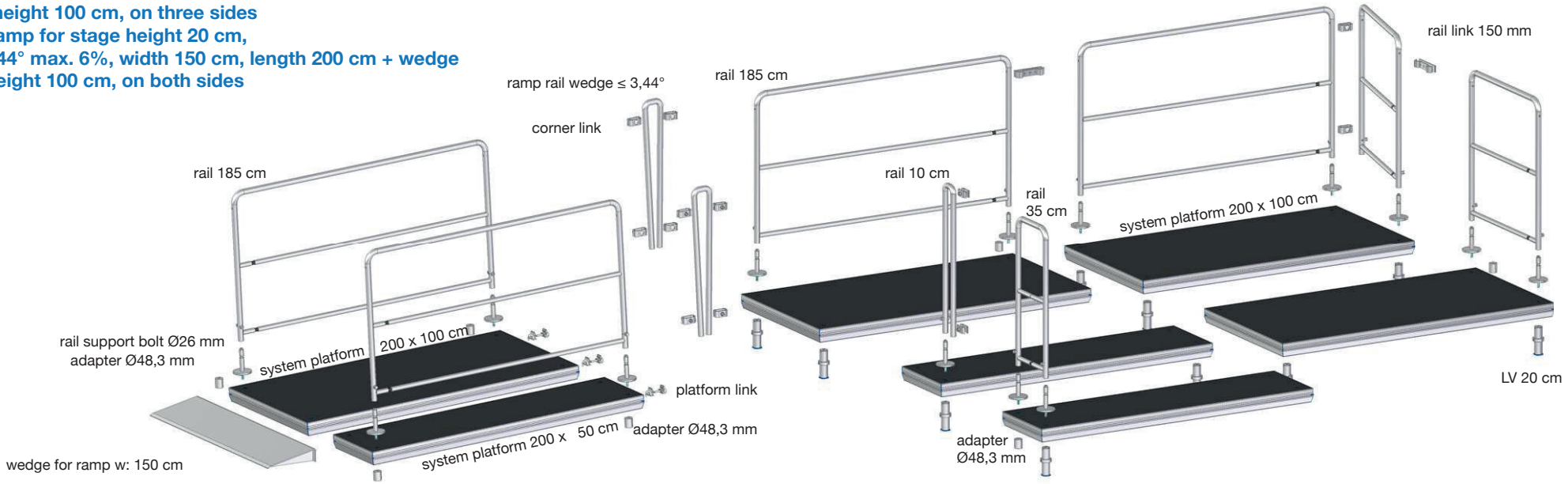
stage, height 40 cm
safety rails, height 100 cm, on three sides
ramp for stage height 40 cm, gradient 7.5°, length 250 cm + wedge
ramp rails, height 100 cm, on both sides



stage, height 40 cm
safety rails, height 100 cm, on three sides
ramp for stage height 40 cm, gradient 5°, length 400 cm + wedge
ramp rails, height 100 cm, on both sides



stage, height 20 cm
safety rails, height 100 cm, on three sides
wheelchair ramp for stage height 20 cm,
gradient ≤ 3.44° max. 6%, width 150 cm, length 200 cm + wedge
ramp rails, height 100 cm, on both sides



stage, height 40 cm
safety rails, height 100 cm, on three sides
wheelchair ramp for stage height 40 cm,
gradient ≤ 3.44° max. 6%, width 150 cm, length 600 cm + wedge
ramp rails, height 100 cm, on both sides