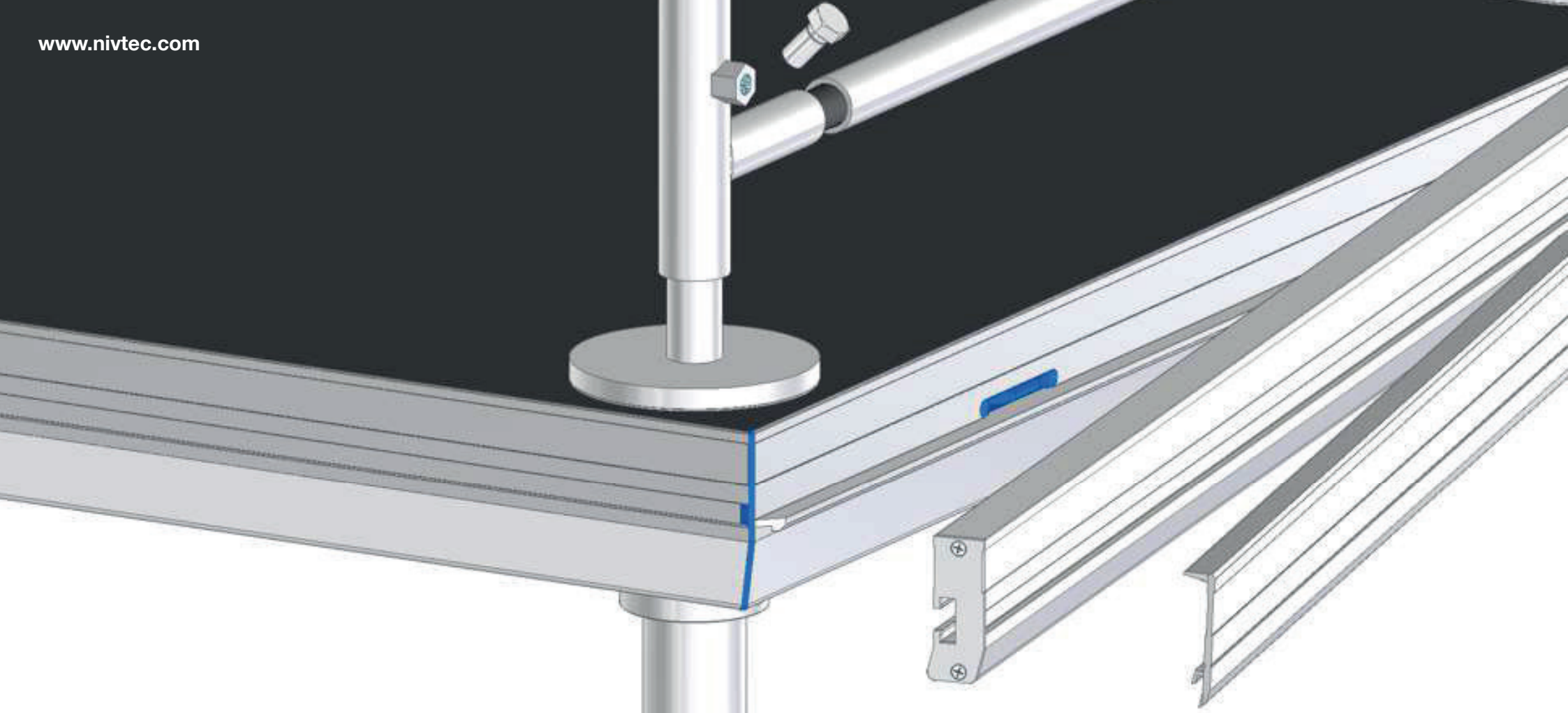
www.nivtec.com



nivtec load distributor leg

Part I. **Product Catalogue** - Directory:

nivtec alu

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

Part I. **Product Catalogue**

Edition 1.0 - 2026

I. The System

possible applications of the nivtec System

horizontal load 1 kN/m
stairway safety rails,
height 100 cm,
tier height 20 cm,
modular

horizontal load 1 kN/m safety rails,
height 100 cm

stairway tier height 20 cm
distributed load 7.5 kN/sqm

stages

distributed load 7.5 kN/sqm

horizontal load 1 kN/m
stairway rails VERTICAL BARS,
height 110 cm,
tier height 16.66 cm,
modular

horizontal load 1 kN/m rails VERTICAL BARS,
height 110 cm,

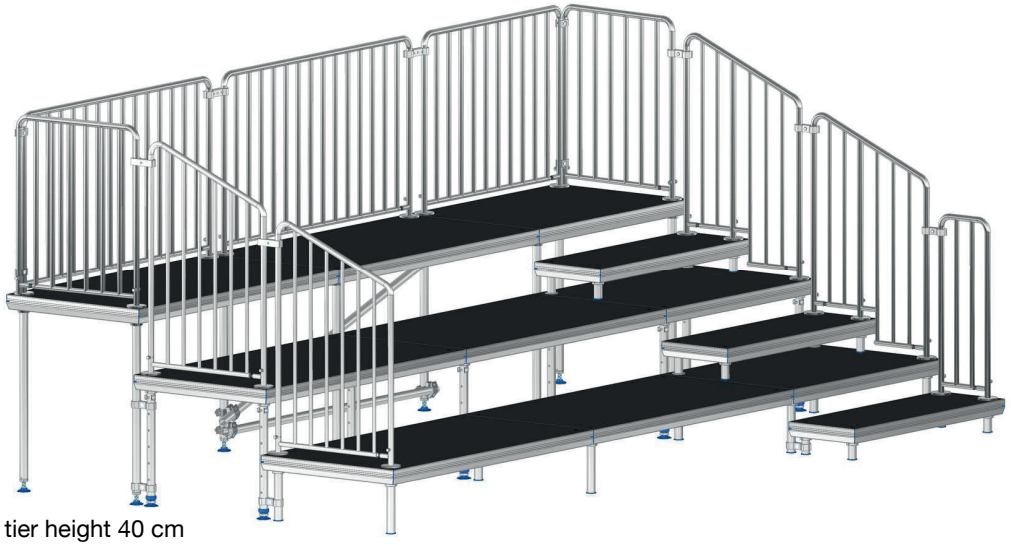
stairway tier height 16,66 cm
distributed load 7.5 kN/sqm

tier height 20 cm

galleries

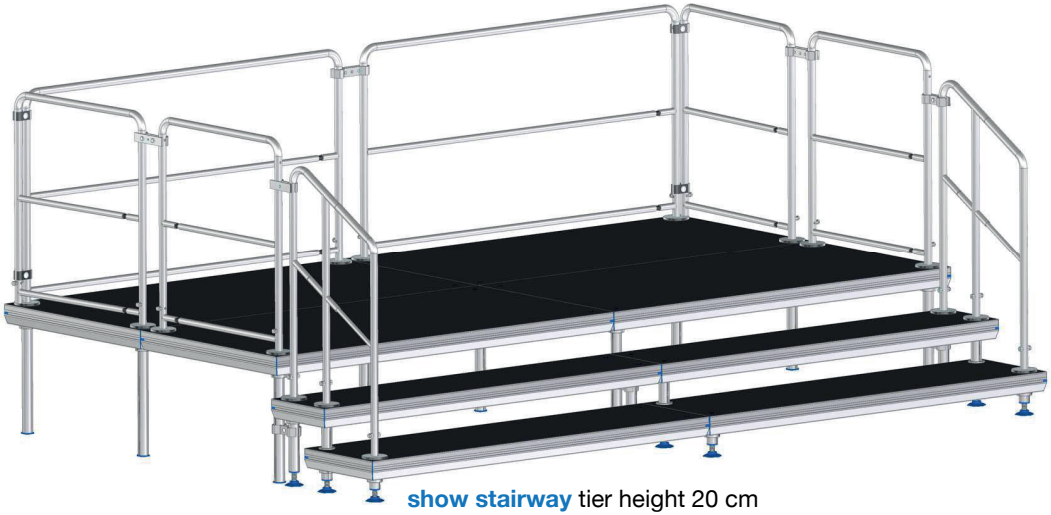
distributed load 7.5 kN/sqm

horizontal load 1 kN/m rails VERTICAL BARS for gallery,
height 110 cm



tier height 40 cm

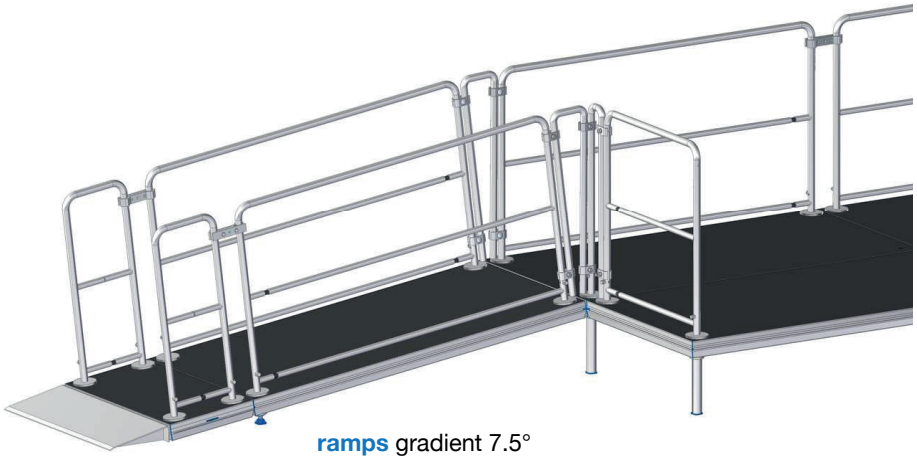
stages
distributed load capacity 7.5 kN/sqm



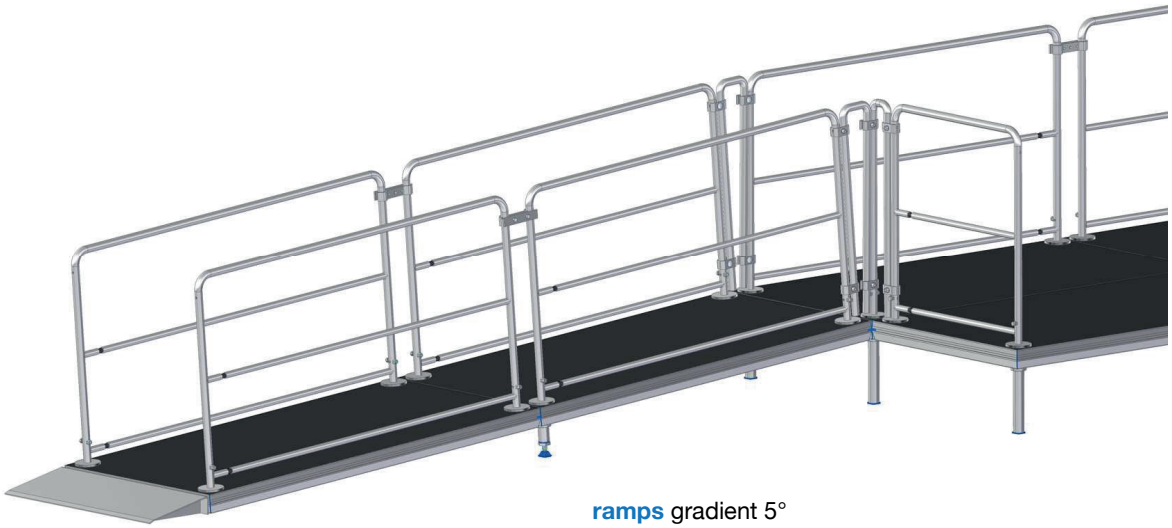
show stairway tier height 20 cm
distributed load capacity 7.5 kN/sqm

show stairway tier height 16,66 cm
distributed load capacity 7.5 kN/sqm

stages
distributed load capacity 7.5 kN/sqm



ramps gradient 7.5°
distributed load capacity 7.5 kN/sqm



ramps gradient 5°
distributed load capacity 7.5 kN/sqm

as well as
wheelchair ramps gradient ≤ 3.44° = max. 6% min. width 1,20 m
distributed load capacity 7.5 kN/sqm

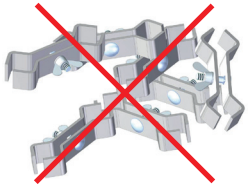
The Unique Staging System & its Unique Story
the art of staging & the blue flamingo

In March 1999, Dipl.-Ing. Tadeusz Kruszewski wanted to revolutionise the assembly technology in stage building with his innovative system. Multiple patents were granted. Hardly anybody was convinced by the idea, and the system was therefore doomed to failure. A tough fight for survival began. Our belief in the product spurred us on to clear the obstacles out of the way, fly beyond them and land safely with new ideas. The system succeeded, but nobody realised at the time that the obstacles that were to come would only be more challenging. Today, the nivtec staging system is an integral part of the global market and is one of the best systems in the world. I am grateful to have never given up and as such to be a small part of it.

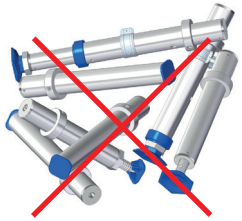
Maria G. Kruszewski

What makes the nivtec system stand out?

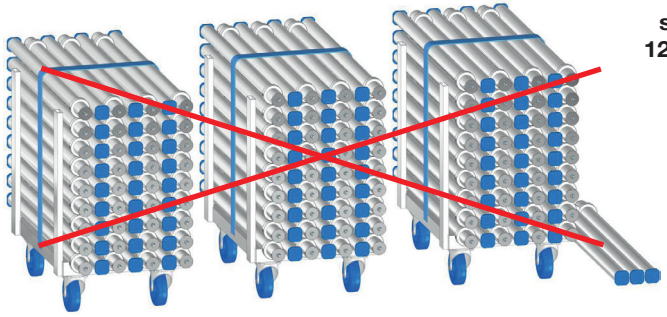
tool-free assembly of the legs thanks to the innovative quick-locking leg support



stage building with standard platforms without **additional linking elements** thanks to the unique integrated Klick-Klack locking mechanism



reduction of the number of legs thanks to the hook-in construction based on the tongue & groove system developed by nivtec, which allows for the platforms to be easily hooked into one another.

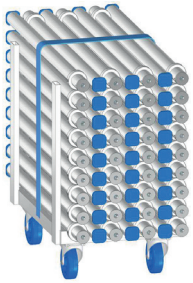


stage 12 x 8 m

instead of 192 legs

As a result, the nivtec set up principle 4-2-2-1 was born in March 1999, which makes it possible to reduce the number of legs in stage building.

For a stage 6 x 4 m, only 20 legs are required instead of 48, for a stage 12 x 8 m only 63 instead of 192. Not only does this reduce the weight of the material and the storage space required, but it also shortens the time required for assembly and minimises the number of personnel required.



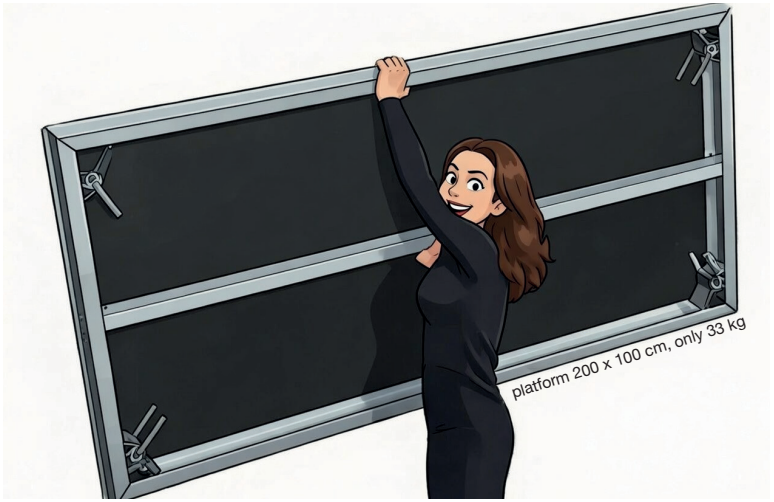
only 63 legs

nivtec is ideally suited for stage set ups where quick set up and tear down play an important role.

The set up of a nivtec stage 6 x 4 m with a stage height of 60 cm can be completed in 3:58 minutes with a 2 person set up team.

The Name.
The Brand.
The System.

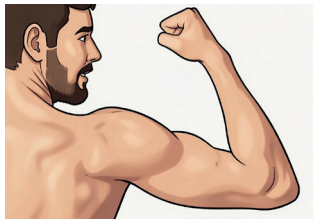
- quick to set up and tear down
- easy to handle
- time saving assembly
- flexible to use
- well thought-out in function
- light weight
- compact for storage & transport
- safe to use – more than 20,000 pages of test documents



Our preparatory work makes your stage building easy. nivtec combines:

- technical know-how
- high-quality material originating in Germany and the EU
- production with in-house tools within the narrowest tolerance range
- precision and diligence as well as constant quality controls in all production processes ensure the consistent quality of the system.
- compliance with safety regulations and their specifications in accordance with DIN EN 13814 and other applicable regulations has been continuously monitored by TÜV Thüringen e.V., the inspection authority for the structural stability of temporary mobile structures, from our beginnings until today.

All this comes at a price, but is worth it in the end. Because with nivtec



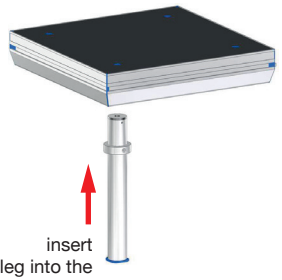
you save **labour** – fewer set up & tear down personnel

you save **time** – short set up & tear down times

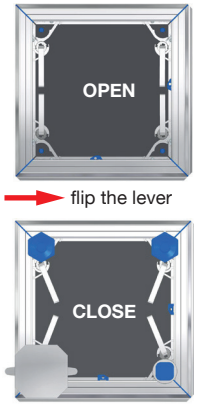
thus you save **money** – because time & personnel cost money

nivtec set up principle

0



insert
the leg into the
leg support

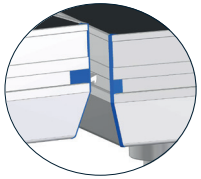


flip the lever

done!

4

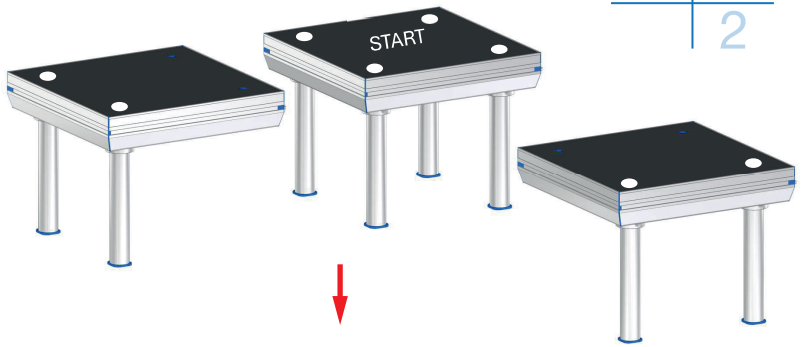
select the leg type



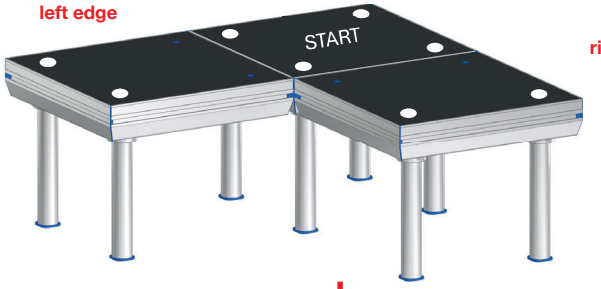
hook the tongue into
the groove & lock it in place

place the starting platform
at the rear right

2 | 4
2



left edge



right edge

2 | 4
2

nivtec set up principle

2 | 4
1 | 2

the original since March 1999
ingeniously simple – simply ingenious

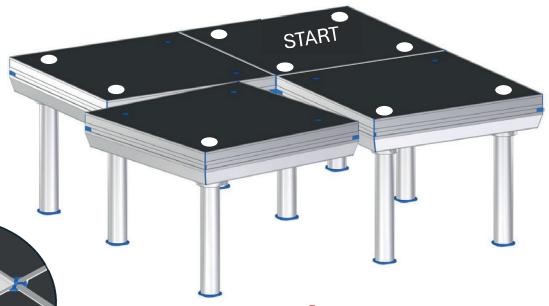
The set up of the nivtec stage starts at the back on the right with a platform on 4 legs, with the tongue sides pointing backwards and to the right. The back edge platforms are fitted with 2 legs on the left. The edge platforms on the right are fitted with 2 legs at the front. All other platforms require only 1 leg at the front left.

To summarise:

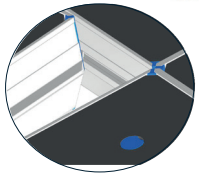
Insert the leg into the leg support, flip the lever, **done!**

Hook the tongue into the groove, lock the locking mechanism, **done!**

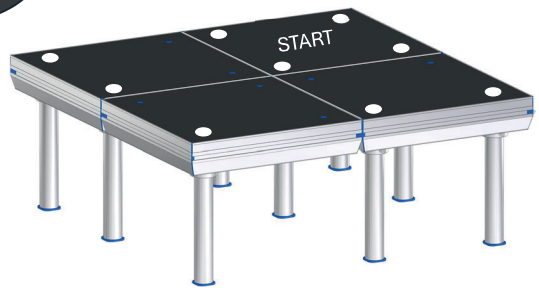
That is nivtec!



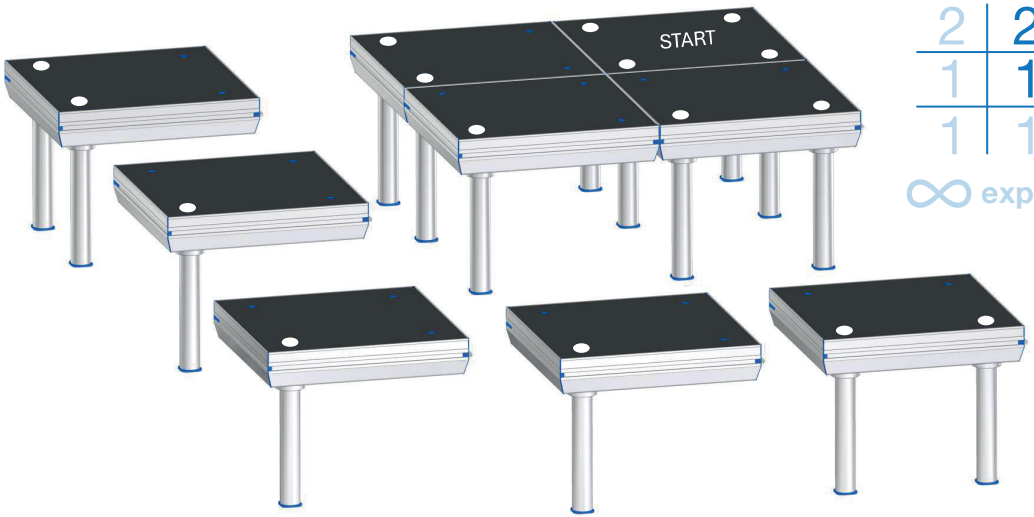
2 | 4
1 | 2



inner platform



2 | 4
1 | 2



2 | 2 | 4
1 | 1 | 2
1 | 1 | 2

∞ expandable

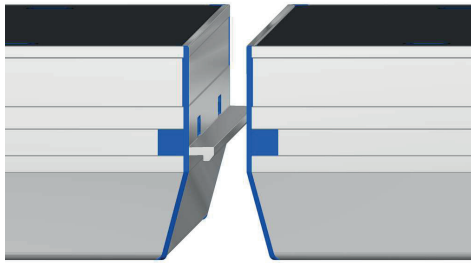
The Centerpiece of the nivtec Staging System

nivtec has been supplying a flexible system for stages and galleries for more than 25 years.

The system platform is the core component of the nivtec staging system. In March 1999, the first prototype was presented at the Prolight & Sound trade fair in Frankfurt (Germany). The first series-produced platform was displayed in June 1999 at the Showtec trade fair in Berlin (Germany). More than 25 years later, the nivtec system is still based on a singular unique design. Individual components have been modified over the years and expanded with new options in order to address market requirement. But the platform has remained essentially unchanged.

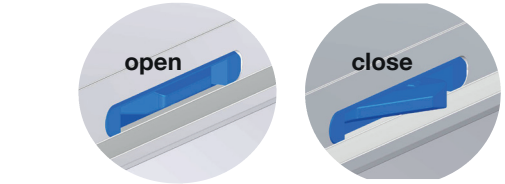
Why?

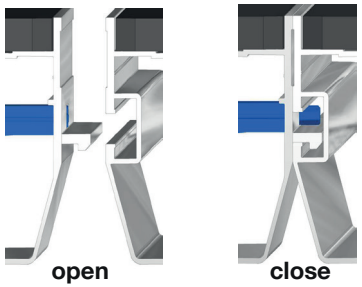
To us, the nivtec platform and thereby the nivtec system is still a **masterpiece of design engineering to this day. Its developer, Dipl.-Ing. Tadeusz Kruszewski (who passed away on 25 July 2004), left his legacy with this design idea and set a milestone in the history of stage building.**



hook in

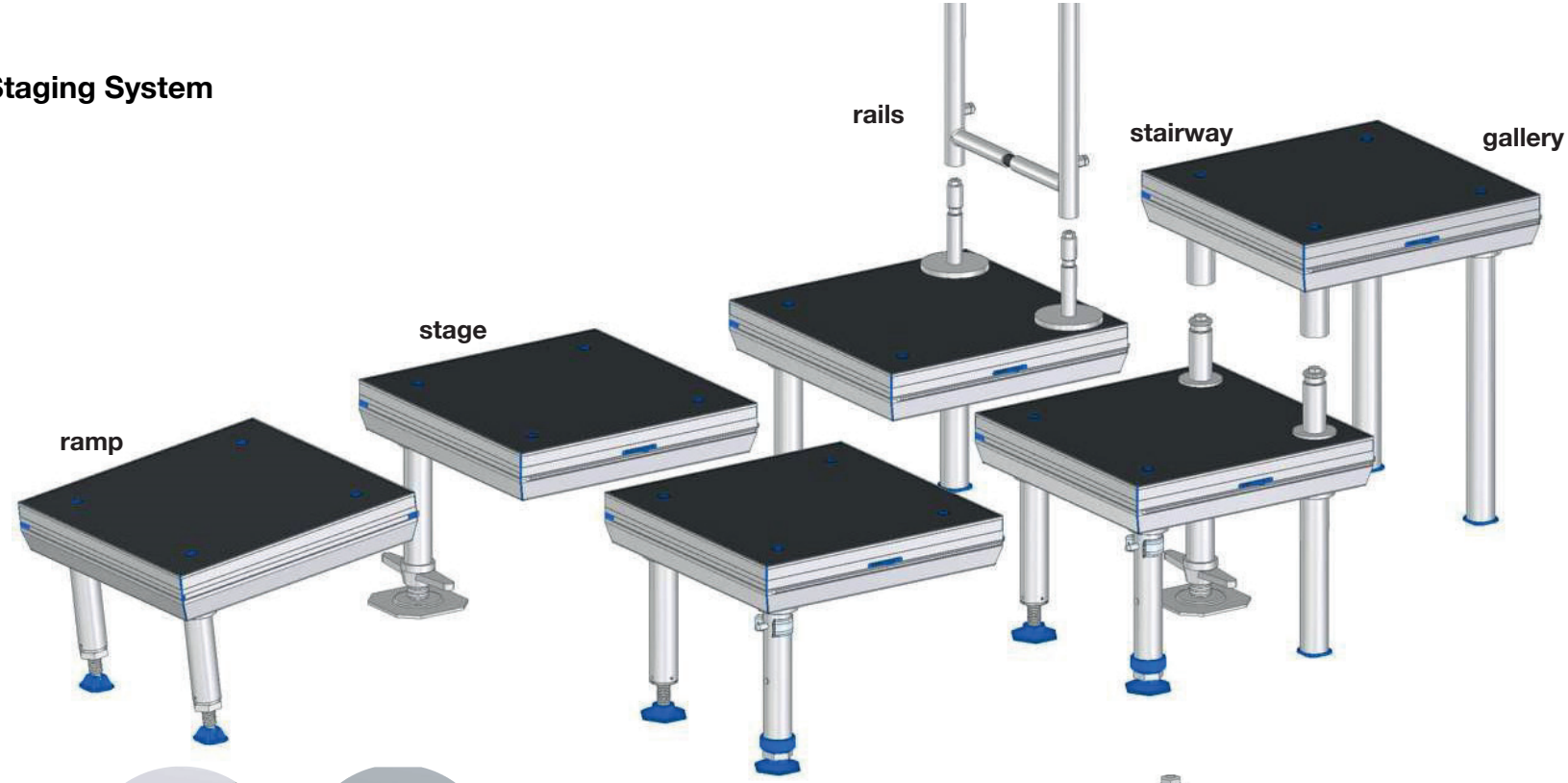
The hook-in design:
The **tongue and groove system** with the integrated Klick-Klack locking mechanism allows the platforms to be put together without additional linking elements by simply hooking the platforms into one another.





lock the locking mechanism

The **integrated Klick-Klack locking mechanism** allows the platforms to be locked together quickly and securely with a flick of the hand, thereby creating a firm connection throughout the entire stage area without tripping hazards at the joints between the platforms.

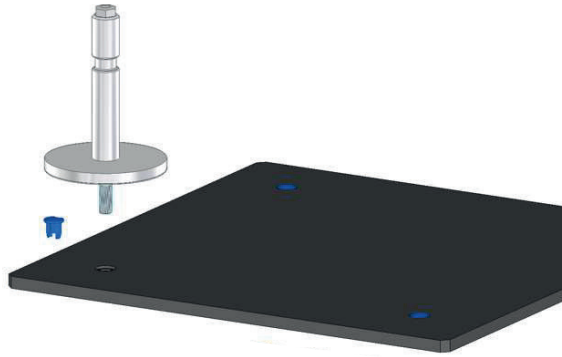


nivtec set up principle

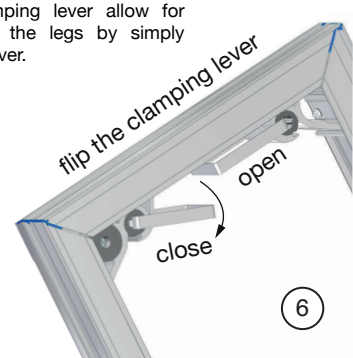
2	4
1	2

The nivtec staging system is ideally suited for **indoor and short outdoor use**. Since March 1999, nivtec has been using **WISA-HexaGrip**, as the only standard panel for indoor and short-term outdoor use, a **12 mm thick skid-proof multiplex phenol coated panel made** of Finnish birch plywood.

The panel is equipped with **4 multifunctional openings** as a standard, making it easy to attach fastening elements for rails, stairways, galleries and other superstructures. The fastening elements are firmly connected to the base construction.



The **integrated corner leg supports** for a round tube with dia. of 48.3 x 4 mm, with double eccentric clamping lever allow for tool-free assembly of the legs by simply flipping the clamping lever.



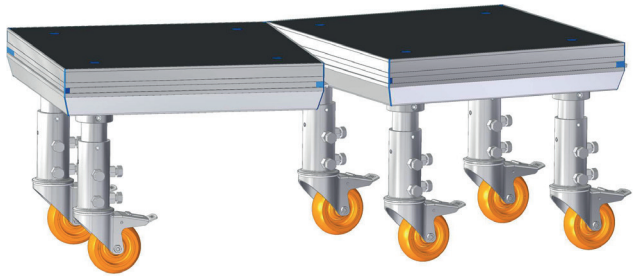
Various aluminium base constructions up to a stage height of 200 cm are available. Fix legs with load distributor are suitable for level ground, levelling legs with a levelling plate can be used in case of small unevennesses. Extension (telescopic) legs or the combination of nivtec legs with a load distributor and Layher scaffold spindles are used in case of severe unevenness. This guarantees stepless height adjustment and maximum safety in the long term without any additional elements.

All legs are equipped with M12 thread adapters as a standard to accommodate fastening elements, as well as **load rings** to increase the stability of the platforms in long-term use. The lock nut stabilises the spindle in the thread adapter for levelling and extension (telescopic) legs.

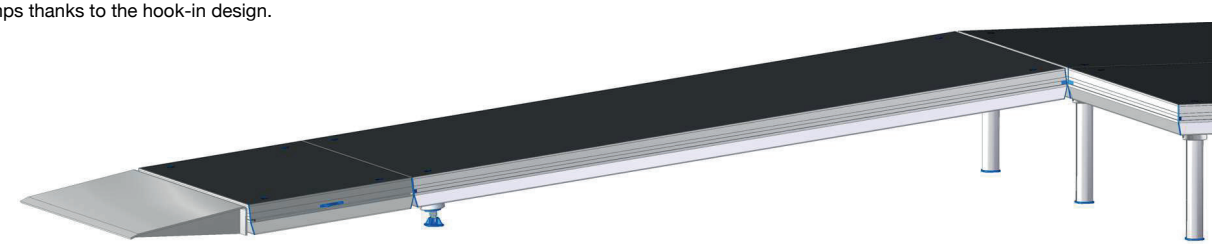
From a stage height of 80 cm, all nivtec aluminium base constructions – fix, levelling, telescopic or continuously variable – must be braced diagonally. Above 140 cm, additional horizontal braces are mandatory. The amount of the bracing material needed is manageable when bearing in mind that nivtec stages, due to the innovative technology with a reduced number of legs, can be set up quickly and easily. Work steps below the stage, which are particularly difficult in the case of low heights, are not necessary with nivtec.
Conclusion: Given the small number of legs, utilised in accordance with the nivtec principle 4-2-2-1, a few aluminium diagonal braces, installed as specified, are simply a part of the set up.

The floor protectors developed by nivtec are **made of non-skid hard rubber** and are available for all base constructions. Depending on the floor conditions, the use of floor protectors is necessary, especially in case of slippery or sensitive surfaces such as tiles or parquet floor.

The construction of **mobile rolling risers** can be set up in no time at all by inserting wheels directly into the leg support instead of legs. Heights of up to 80 cm can be achieved by using rolling riser adapters.



The r**amp construction with gradients of 7.5° and 5° as well as 3.44° = 6%, wheelchair accessible,** can be realised in no time with nivtec platforms, ball-bearing legs and wedges for ramps thanks to the hook-in design.

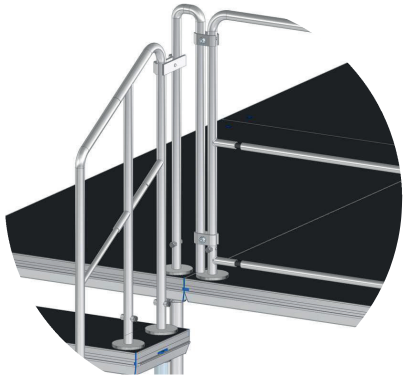


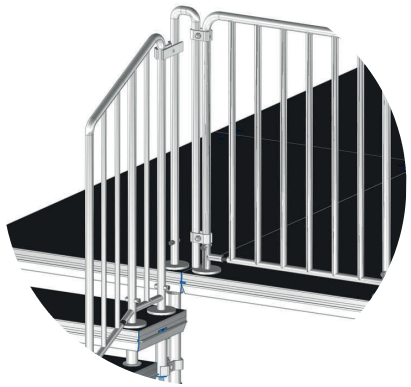
For stage and gallery constructions, **safety rails with a height of 100 cm or 110 cm high safety rails VERTICAL BARS** are available. For ramp construction, ramp rail wedges suitable for gradients of 7.5°, 5° as well as 3.44° have been developed. For stairways, the product range includes modular stairway safety rails with a tier height 20 cm as well as rails VERTICAL BARS with a tier height of 16.66 cm. Thanks to a fix connection with the base construction, nivtec achieves a horizontal load of 1 kN/m. Stairways and ramps are connected to the stage rails without gaps by means of connecting parts such as 10 cm wide rails with corner links.

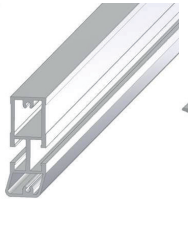
Recessed corners, cable grommets, various **function laths** for tongue and groove profiles for quick attachment of textile linings are part of the portfolio. As a result, platforms covered with Velcro tape and therefore no longer flexibly usable are a thing of the past. With our **transport and storage system,** our product range can be dispatched quickly, compactly and conveniently.

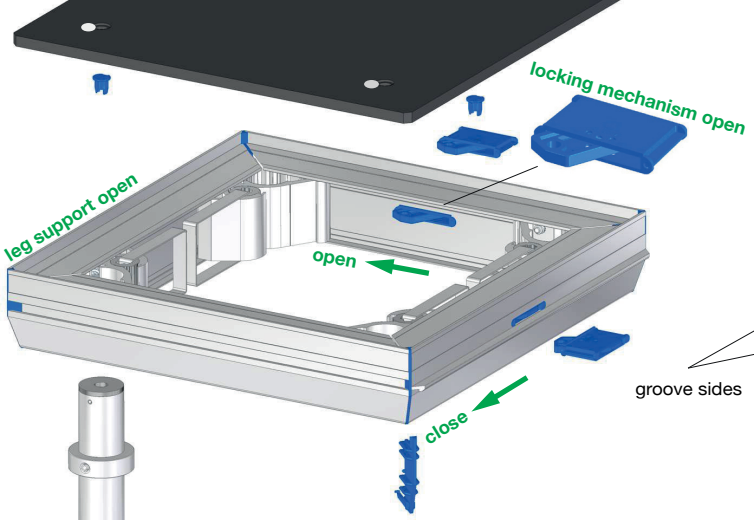
All parts of the system are maintenance-free. If worn parts are identified during the constant set up and tear down, these must be replaced with **nivtec spare parts**.

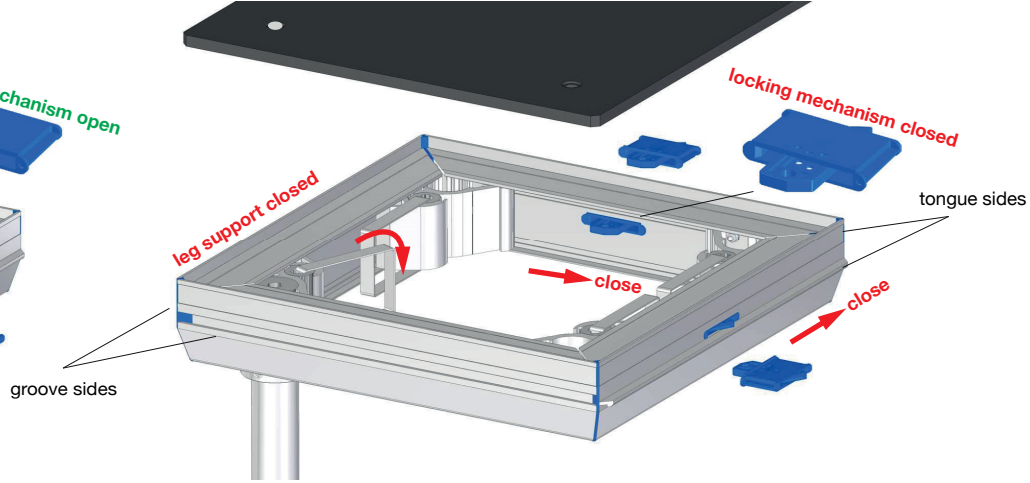
The nivtec staging system is not only suitable for the quick set up of stages and galleries, but also, with just a handful of accessories, for **building stairways with a tier height 20 cm and 16.66 cm**. Wide nivtec show stairways are the eye-catcher par excellence.

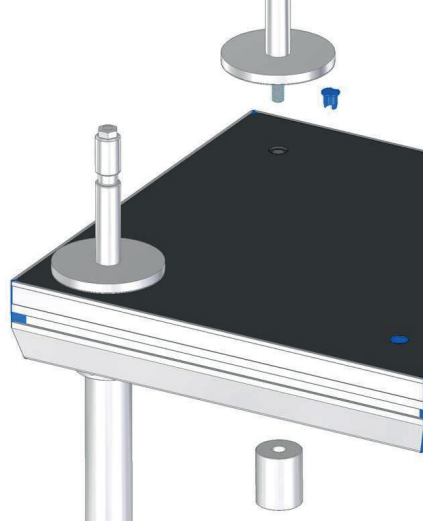












II. P as in Podeste = platforms for stages, galleries & more

The system platform is a hybrid construction made of an aluminium frame and a multiplex phenol coated plywood panel, which has a very high load-bearing capacity at an extremely low weight.

Aluminium frame with tongue and groove profile
The 9 cm high aluminium frame consists of specially designed aluminium profiles (material EN AW-6005 A T6): 2 tongue sides and 2 groove sides. Integrated in the frame there are 4 leg supports with double eccentric clamping levers made of stainless steel for tool-free installation of the legs made of aluminium round tube with dia. of 48.3 x 4 mm. The tongue profiles have milled recesses for installing the Klick-Klack locking mechanism consisting of plastic parts and the lever for the locking mechanism.

+

The 12 mm thick phenol coated multiplex plywood panel WISA-HexaGrip
made of Finnish birch plywood has been in use since March 1999 as the only standard version for indoor and short-time outdoor use. The layers of veneer are placed perpendicular on top of one another and glued together with phenolic resin formaldehyde glue to make them weather-proof as per the EN 314-2/KI. 3 BFU100 standard. The surface consists of a black-brown phenolic resin coating with hexagonal embossing, which is widely used today.

The panel is
skid-proof with rating class R 11 & flame-retardant with rating class Bfl-s1.

+

4 multi-function openings in the wooden panel allow for the installation of rails, stairways and other superstructures in direct connection with the base construction. The openings & the panel edges are sealed against moisture.

Plastic parts in standard blue colour:
The Klick-Klack locking mechanism consisting of the housing & the locking lever, the solid corner protection as well as the top caps.

+

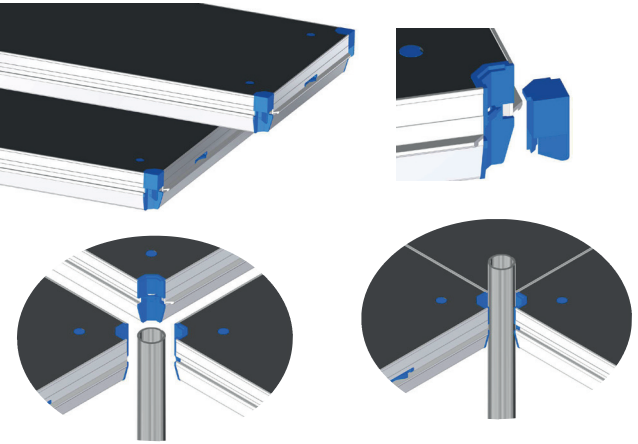
The special bonding technique
makes it possible to combine the 90 mm high aluminium frame & the 12 mm thick wooden panel to form a strong unit that can withstand a stage load of 7.5 kN /sqm, a proven solution for over 25 years.

In addition to the standard rectangular platforms, the current product portfolio also includes platforms in special versions and special shapes as well as with special surfaces.

STANDARD VERSION

The bestseller is the system platform 200 x 100 cm, Art. No. 111 01 0, with a weight of approx. 33 kg and the standard frame consisting of 2 tongue and 2 groove profiles. The standard widths are 200 cm, 150 cm, 100 cm, 75 cm and 50 cm.
The standard depths are 100 cm, 75 cm and 50 cm as well as 39 cm for the top step of the push-on stairways. Special dimensions are only possible if the width does not exceed 200 cm and the depth does not exceed 100 cm. As a general rule, special platforms are only manufactured with a groove profile all around. Tongue profiles can only be used if the desired dimensions can be cut from standard profiles with 1, 2 or 3 milled recesses for the Klick-Klack locking mechanism.

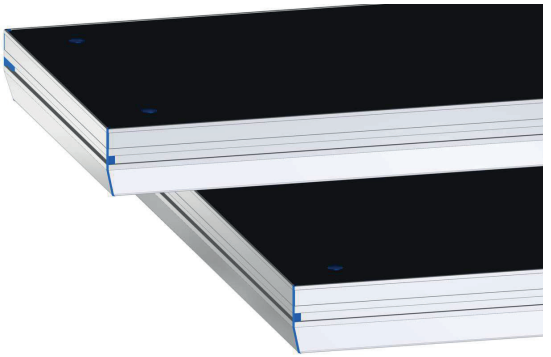
SPECIAL VERSION with recesses



platform 200 x 100 cm, platform 200 x 50 cm, platform 100 x 100 cm, platform 100 x 50 cm
4 corner recesses in the platform allow for the feeding through of a 48.3 x 4 mm tube. They are primarily used in combination with Layher scaffold systems. The corner caps, Art. No. 100 15 7, allow for the utilisation of the platform also within a standard stage area. The standard frame is the base model.

SPECIAL SHAPES with groove profile all around rectangle

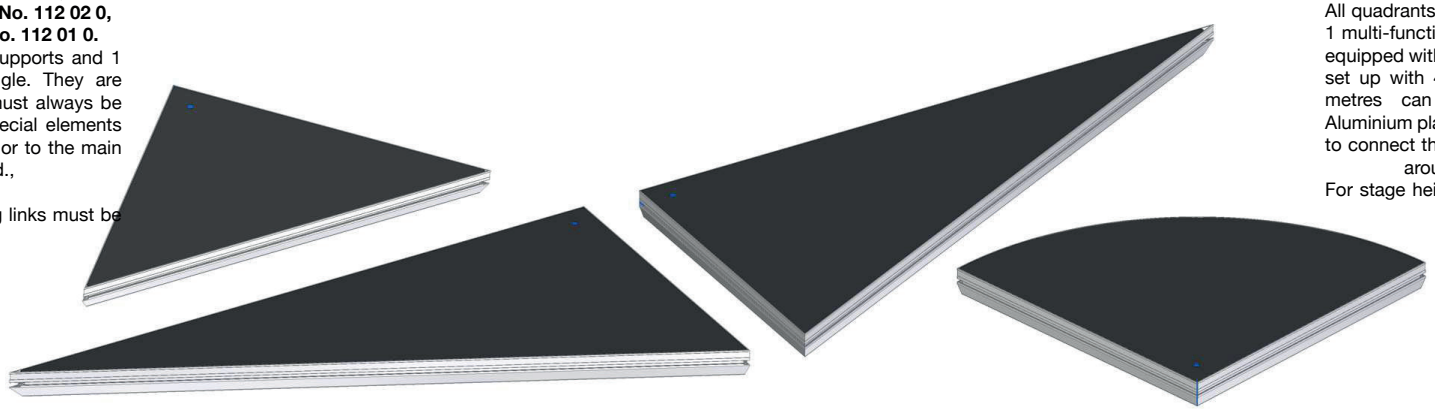
rectangle 200 x 100 cm, rectangle 200 x 50 cm, rectangle 100 x 100 cm, rectangle 100 x 50 cm,
For some installations, such as use of single platforms as tables at events or presentation areas, platforms with groove profiles on all 4 sides are requested. From 2026 on, this version will be part of the nivtec product portfolio. The special platform is equipped with 4 leg supports and 4 multi-function openings. It must always be placed on 4 legs. Aluminium platform links, Art. No. 401 20 0, are used to connect the special platforms with the groove all around to each other or the the main stage. For stage heights exceeding 80 cm, leg links must be used additionally:
150 mm for stages, Art. No. 401 11 0
110 mm for galleries Art. No. 401 10 0.



SPECIAL SHAPES with groove profile all around

triangle

triangle 100 x 100 cm x 90°, Art. No. 112 05 0,
triangle 200 x 100 cm right x 90°, Art. No. 112 02 0,
triangle 200 x 100 cm left x 90°, Art. No. 112 01 0.
All triangles are equipped with 3 leg supports and 1 multi-function opening at the 90° angle. They are equipped with 3 groove profiles and must always be set up with 3 legs. To connect the special elements with a groove all around to each other or to the main stage, aluminium platform links are used.,
Art.No. 401 20 0
For stage heights exceeding 80 cm, leg links must be used additionally:
150 mm for stages Art. No. 401 11 0
110 mm for galleries Art. No. 401 10 0.



quadrant

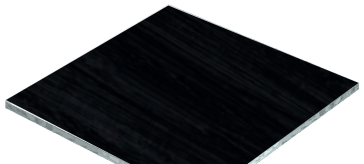
quadrant radius of 100 cm, Art. No. 112 01 2.
All quadrants are equipped with 4 leg supports and 1 multi-function opening at the 90° angle. They are equipped with 3 groove profiles and must always be set up with 4 legs. A circle with a diameter of 2 metres can be created using 4 quadrants. Aluminium platform links, Art. No. 401 20 0, are used to connect the special elements with the groove all around to each other or to the main stage.
For stage heights exceeding 80 cm, leg links must be used additionally:
150 mm for stages Art. No. 401 11 0
110 mm for galleries Art. No. 401 10 0.

SPECIAL SURFACES

Order quantities: 6 sqm, 12 sqm, 18 sqm, 24 sqm & more

special surface indoor 9 mm,
made of birch veneer plywood. The veneers are laid crosswise on top of each other and
glued together with phenolic resin formaldehyde glue to make them weatherproof as per the EN 314-2/class 3 BFU100 standard. The panel is uncoated, so that carpet can be laid. The 9 mm panel also serves as a base for other 3 mm thick special coatings: laminates, matt or glossy; wood decors, single-colour decors or fantasy decors.
The panel is equipped with 4 recessed multi-function openings with plastic caps in blue.

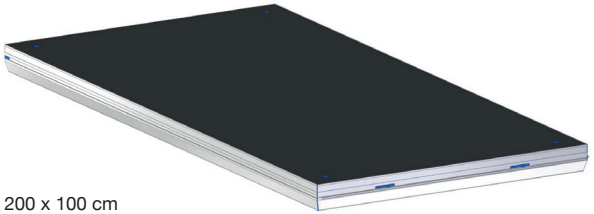
special surface indoor 12 mm,
made of birch veneer plywood, varnished black. The layers of veneer are placed perpendicular on top of one another and glued together with phenolic resin formaldehyde glue to make them weather-proof as per the EN 314-2/class 3 BFU100 standard.
The panel is equipped with 4 multi-function openings with plastic caps in black.

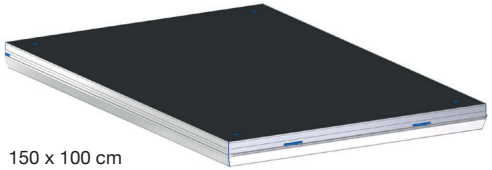


special surface acrylic glass 12 mm, satin finish on one side
elegant platform version with acrylic glass panel, base: polymethyl methacrylate (PMMA), extruded, 12 mm, satin finish on one side, equipped with 4 multi-function openings with clear plastic caps as well as processed using clear adhesive.

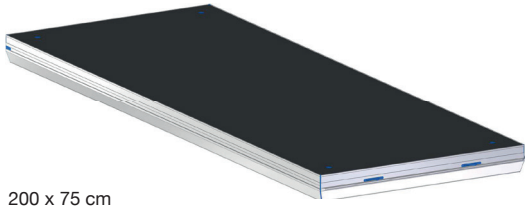
special surface acrylic glass 12 mm, clear
elegant platform version with acrylic glass panel, base: polymethyl methacrylate (PMMA), extruded, 12 mm, clear, equipped with 4 multi-function openings with clear plastic caps as well as processed using clear adhesive.

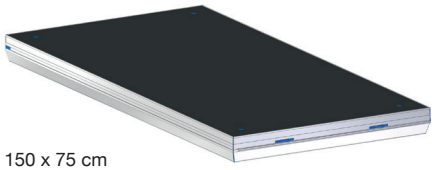
STANDARD VERSION

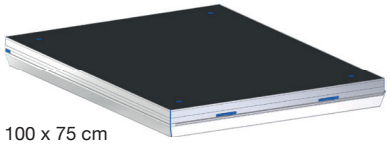

200 x 100 cm

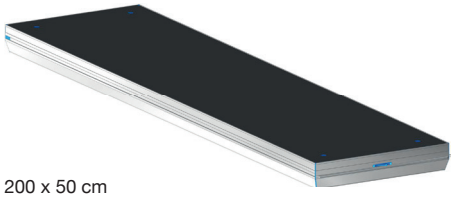

150 x 100 cm

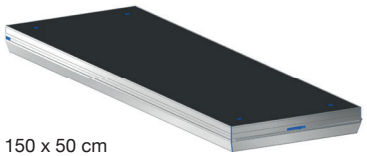

100 x 100 cm

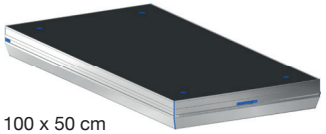

200 x 75 cm


150 x 75 cm

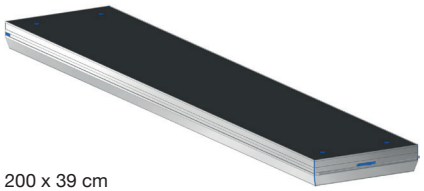

100 x 75 cm

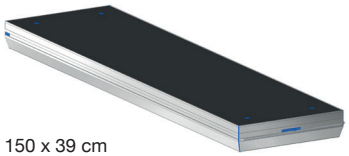

200 x 50 cm

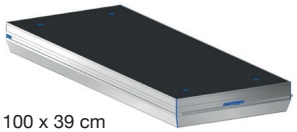

150 x 50 cm


100 x 50 cm


50 x 50 cm

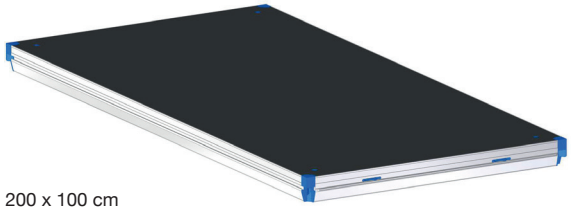

200 x 39 cm

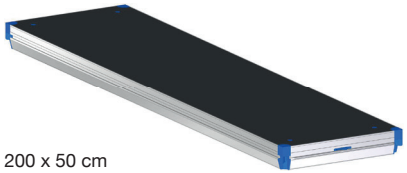

150 x 39 cm


100 x 39 cm

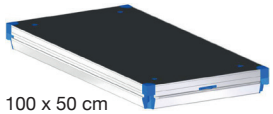
All nivtec platforms with multiplex phenol coated plywood panels at one glance:

SPECIAL VERSION with recesses

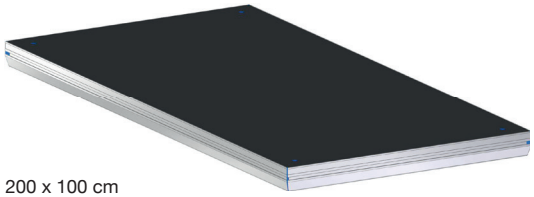

200 x 100 cm


200 x 50 cm

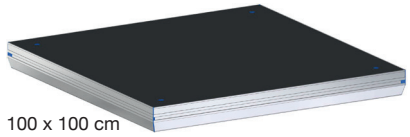

100 x 100 cm

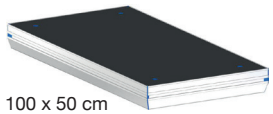

100 x 50 cm

SPECIAL SHAPES with a groove all around rectangle

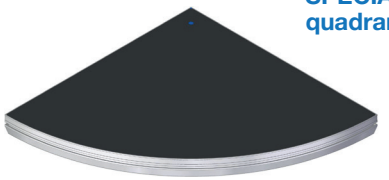

200 x 100 cm


200 x 50 cm


100 x 100 cm

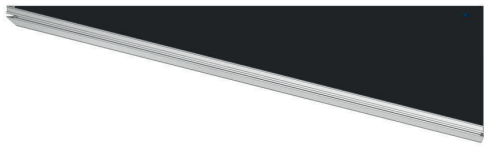

100 x 50 cm

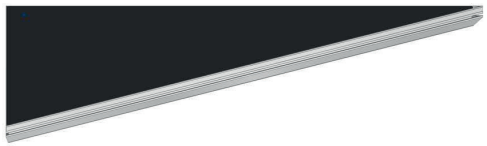
SPECIAL SHAPES with a groove all around quadrant


quadrant, 100 cm radius

SPECIAL SHAPES with a groove all around triangle


triangle 100 x 90 ° x 100 cm


triangle 2 x 1 m left


triangle 2 x 1 m right

III. U as in Unterkonstruktion = base construction for stages, galleries & more

Base constructions should be selected to suit 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 uneveness of the ground surface – should be sufficiently underpinned. For this, the reference values for the underpinnings specified in DIN EN 13814 Article 5.5.4 apply.

all types of nivtec legs at one glance:

LV 40 cm LV 33,33 cm

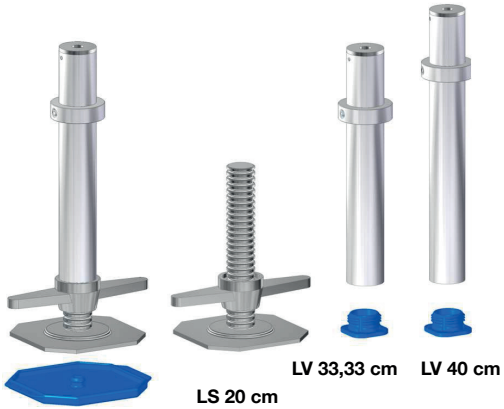
LV fix, for stage heights up to: 200 cm

for level ground surface for building stages and galleries

VS 40 cm VS 33,33 cm

VS levelling, for stage heights up to: 200 cm

to level out minor unevenness on the ground surface when building stages, galleries & stairways



LS 20 cm + LV 33,33 cm LS 20 cm LV 33,33 cm LV 40 cm

LS+LV stepless, with Layher scaffold spindles LS, for stage heights up to: 200 cm

to level out larger unevenness of the ground surface when building stages and galleries, especially in outdoor areas

TF 40-60 cm

TF extension (telescopic) legs, for stage heights up to: 140 cm

to level out larger differences in height when building stages and galleries

KG for ramps sh: 40 cm

KG inclinable, for stage heights up to: 140 cm

for ramps gradient 7.5°,
for stage heights up to: 140 cm
for ramps gradient 5°,
for stage heights up to: 80 cm
for ramps maximum gradient
3.44° = 6%

RR 40 cm Ø10 cm RR 40 cm Ø16 cm

RR with wheels, for stage heights up to 80 cm

for rolling risers with different load capacities, depending on the diameter of the transport wheels:
dia. 10 cm or dia. 16 cm

aluminium base constructions for the nivtec staging system up to a stage height of 200 cm in a grid of 200 x 100 cm are built with plug-in legs made of aluminium round tube dia. 48.3 x 4 mm, material EN AW-6005 A T6. The legs are as standard equipped with:

plastic parts:

leg corks made of hard rubber, square, removable for LV, base plate made of hard plastic, hexagonal, for VS and TF, or square for KG in blue

load ring, with a dia. 70 mm,

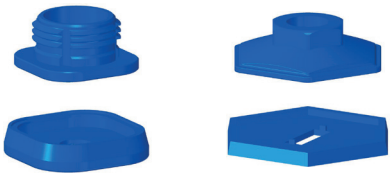
steel, galvanised. Function: to increase of the stability of the platforms in long-term performance

lock nut,

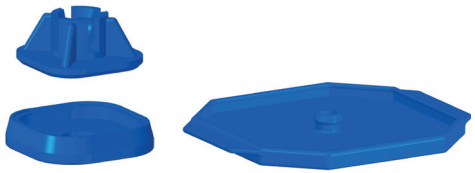
steel, galvanised, for levelling legs VS exceeding stage height: 40 cm, for ball bearing legs KG exceeding stage height: 20 cm and for all extension (telescopic) legs TF made of steel. Function: stabilisation of the levelling spindle in the M22 thread adapter

thread adapter M12,

steel, galvanised. Function: mounting of fastening elements for rails, stairways, ramps & rolling risers



The hard rubber **floor protectors** developed by nivtec are available in square, hexagonal or octagonal shape for all base constructions – both for legs made of round tube as well as for the Layher scaffold system. Depending on the floor conditions, the use of floor protectors is necessary, especially in case of slippery or sensitive surfaces such as tiles or parquet floor.



all types of nivtec legs in use:

ramp

gradient 7.5°
gradient 5°
gradient 3,44°

Approval for mixed installation of the ball bearing legs in aluminium & steel versions for ramps:

The ramps are executed with gradient 3.44° (= 6 % gradient), 5° or 7.5° with nivtec platforms in combination with ball bearing legs developed for ramp construction.

Calculations for nivtec stages are available. Due to the gradient of the ramps, ranging from 3.44° to 7.5°, an additional horizontal load is generated, which has been taken into account in the performed calculations. **The ramps can, therefore, be constructed to withstand a distributed load of 7.5 kN/sqm.**

From November 2025, aluminium round tubes (material EN AW-6005A T6) with a diameter 48.3 mm and a wall thickness of 4 mm will be used for ball bearing legs instead of steel round tubes (S235)
The ball bearing legs that to date have been made of round steel tubes can still be used, even in combination with the new ball bearing legs made of round aluminium tubes. The ball bearing legs are manufactured in specified sizes ranging from 15 cm to a maximum of 120 cm. Ramps must be braced in the same manner as stages. In this, the provisions of the nivtec aluminium specification must be adhered to.

stage

Approval for mixed installation of various types of nivtec legs for stages in aluminium and steel versions:

For **stages** with nivtec stage platforms, nivtec original legs equipped with a load ring and a thread adapter are to be used exclusively. Any approved variants may be used: load distributor legs, levelling legs, extension (telescopic) legs, load distributor legs in combination with Layher spindles. **The legs can be used in both the current aluminium version as well as the steel version manufactured up to 2015.**

The following conditions apply:
The bracing is carried out as per nivtec aluminium bracing specifications.
The legs connected by braces must be of the same type. The diagonal braces (for stage heights ≥ 80 cm) and horizontal braces (additionally for stage heights > 140 cm) can be executed in either aluminium (EN AW-6005A T6) or steel tube (S235) with dia. 48.3 x 4 mm and the corresponding couplers.

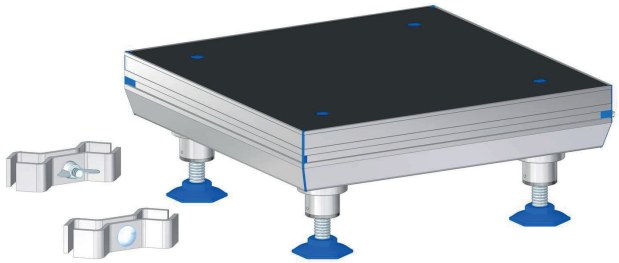
For more information, see Catalogue 2.0 – 2026 Edition

When using Layher scaffold spindles in combination with nivtec load distributor legs, it is essential to ensure that the nivtec aluminium specifications for the maximum spindle way of the scaffold spindle used are adhered to.

For more information, see Catalogue 2.0 – 2026 Edition

stairway

tier height 20 cm
tier height 16,66 cm



Approval of stairways with tier height 16.66 cm

nivtec platforms are suitable not only for stage and gallery construction. Thanks to the well-thought-out design, they can also be used to build stairways, which are then firmly connected to the base construction of the stage. Platforms in widths 200 cm, 150 cm and 100 cm are suitable for the construction of stairways. At a width of 150 cm, a clear width of 120 cm remains after stairway rails have been installed on both sides. With the platform depth of 50 cm, a tread of 35 cm is achieved adhering to the nivtec construction method, which allows for a comfortable and safe ascent and descent both for women in high heels and for men with size 46 shoes. To achieve the same tread on all of the steps of the push-on stairways, platforms with a depth of 39 cm were introduced for the top step. The stairways can be expanded both in height and width. Show stairways made of nivtec platforms are the eye-catcher par excellence.

In the meantime, the portfolio has been extended to include a 16.66 cm tier height (theatre tier height). For the stairways themselves, this results in greater stability, as the step height is reduced from 20 cm to 16.66 cm.
Stairways with a tier height of 16.66 cm can, therefore, be labelled as having a distributed load of 7.5 kN/sqm in the same manner as the stairways with a tier height of 20 cm.

For hook-on stairways, platforms with a depth of 50 cm are used exclusively. There is always one step more required than for push-on stairways. The stairways are executed with a tier height of 20 cm using nivtec platforms in combination with the levelling legs.

all types of nivtec legs in use:

gallery

tier height 20 cm
tier height 40 cm

rolling riser

Art. No. 803 02 0T transport wheel dia. 16 cm
Art. No. 206 11 1T rolling riser, stage height: 40 cm

Art. No. 803 01 0T transport wheel dia. 10 cm
Art. No. 206 01 1T rolling riser, stage height: 40 cm

Approval for mixed installation of different types of nivtec legs in aluminium and steel variants for galleries:

For galleries with nivtec stage platforms, nivtec original legs equipped with a load ring and a thread adapter are to be used exclusively. Any approved variants may be used: load distributor legs, levelling legs, extension legs, load distributor legs used in combination with Layher spindles. **The legs can be used in both the current aluminium version as well as the steel version manufactured up to 2015.**

The following conditions apply:
The bracing is carried out as per nivtec aluminium bracing specifications. **For galleries it is mandatory that for each level only one leg type is used.** The diagonal braces (for stage heights ≥ 80 cm) and horizontal braces (additionally for stage heights > 140 cm) can be made of aluminium (EN AW-6005A T6) as well as steel (S235) tube with a dia. 48.3 x 4 mm and the corresponding couplers.
For more information, see Catalogue 2.0 – 2026 Edition

For galleries where the combination of Layher scaffold spindles and nivtec load distributor legs is used for one or more levels, an identical leg distance of 15 cm must be ensured for the entire gallery.

When using Layher scaffold spindles in combination with nivtec load distributor legs, it is essential to ensure that the nivtec alu regulations for the maximum spindle way of the scaffold spindle used are adhered to.
For more information, see Catalogue 2.0 – 2026 Edition

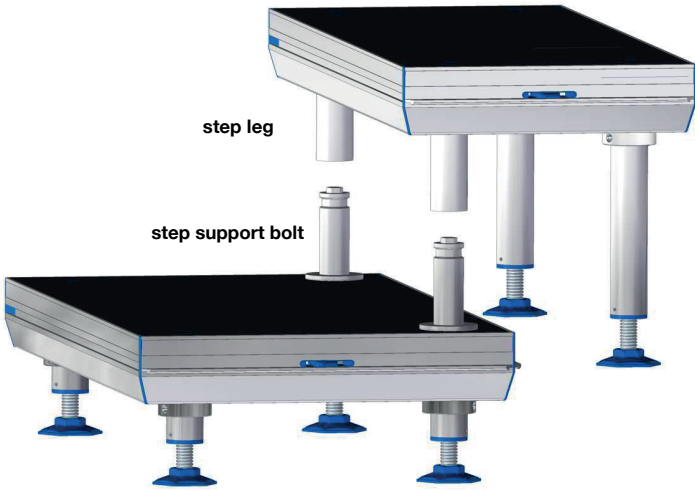
Approval for mixed installation of Rolling riser adapters in aluminium & steel variants for rolling risers:

Rolling risers can be built with nivtec platforms using nivtec transport wheels dia. 10 cm or dia. 16 cm. The set up is executed as specified in the nivtec assembly instructions as per the nivtec principle 4-2-2-1.
Rolling risers may only be used on flat and level surfaces. The maximum size is 24 sqm.
When using the wheels, the following stage heights (= top edge of platform) are achieved:
wheels dia. 10 cm – stage height 22 cm
wheels dia. 16 cm – stage height 28.5 cm
When using nivtec transport wheels in combination with nivtec rolling riser adapters, rolling risers with platform heights of 40 cm, 60 cm and 80 cm can be created. For this, rolling riser adapters are available for both wheel sizes. No bracing is required for a height of 80 cm.

The following load capacities should not be exceeded for rolling risers:
for wheels dia. 10 cm / wheel load capacity of 200 kg / permitted distributed load of 1.5 kN/sqm
for wheels dia. 16 cm / wheel load capacity of 350 kg / permitted distributed load of 2.5 kN/sqm
When both types of transport wheels are combined in rolling risers, the permitted distributed load is that of the 10 cm dia. wheel.
From November 2025, **once the remaining stock of steel rolling riser adapters had been sold, aluminium round tubes (material EN AW-6005A T6) with a diameter of 48.3 mm and a wall thickness of 4 mm are used for the rolling riser adapters instead of steel round tubes (S235).**
The rolling riser adapters made of round steel tubes that have been manufactured previously can still be used, even in combination with the new rolling riser adapters made of round aluminium tubes.

stairway construction & stairway accessories

For the **construction of stairways with a tier height 20 cm or 16.66 cm**, all that is needed, apart from the platforms and the levelling legs VS to level out the differences in height, is just a handful of stairway

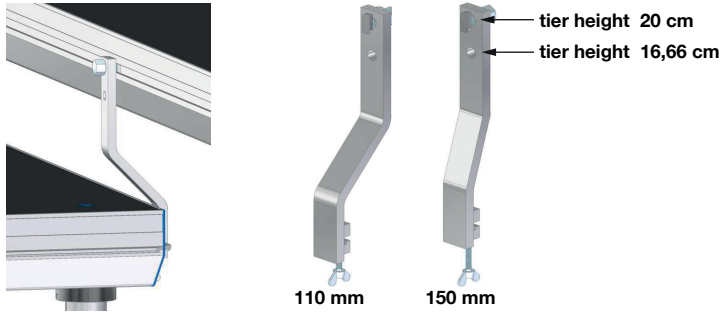


to use **platforms as stairways steps**

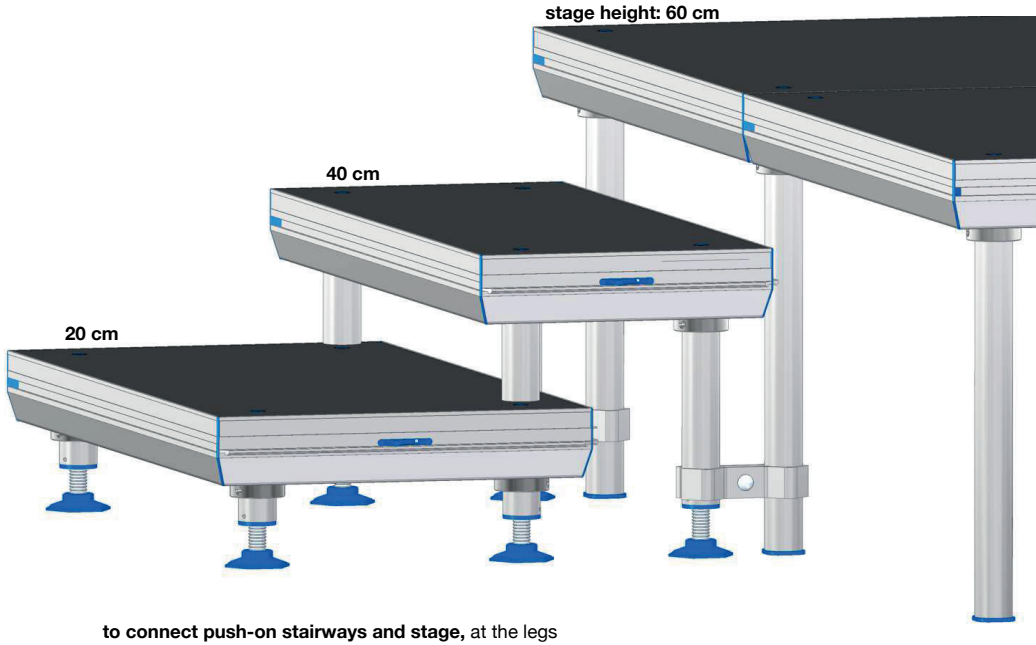
Art. No. 205 01 0 step leg for tier height **20 cm**
Art. No. 205 01 0 step leg for tier height **16.66 cm** - theatre tier height
Art. No. 401 01 0 step support bolt, **dia. 39 mm**, galvanised steel

to connect push-on stairways and stage, at the frame (tongue and groove)

Art. No. 402 01 0 N-F link 110 mm for leg distance 110 mm, galvanised steel
Art. No. 402 05 0 N-F link 150 mm for leg distance 150 mm, galvanised steel

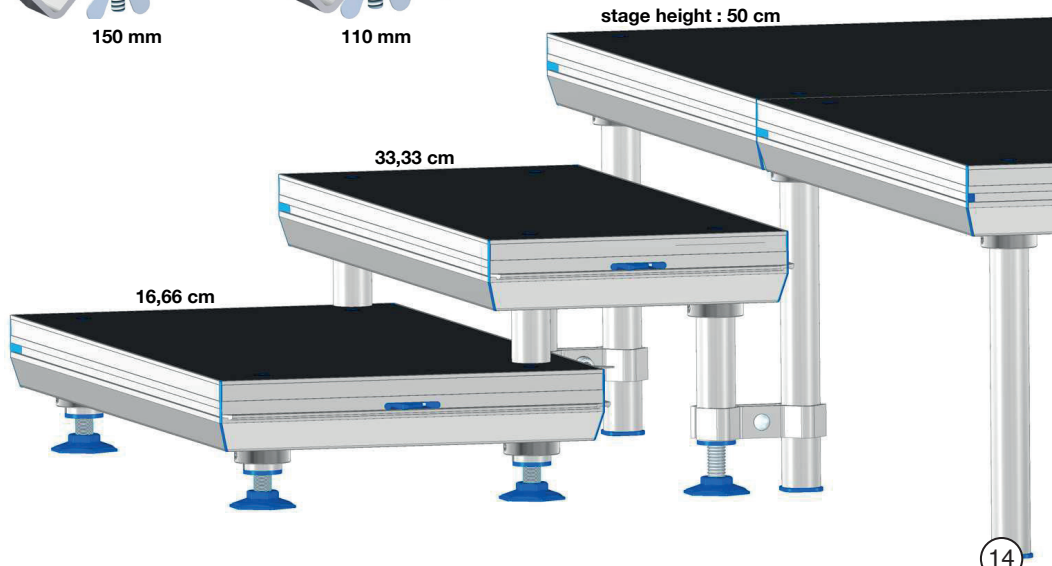


N-F links are only used on the groove sides of the stage if the stairway leg is not in line with the grid of the stage legs. This happens very rarely. In most cases, the use of an additional stage leg makes it possible to connect the stairways to the stage on both sides with leg links.



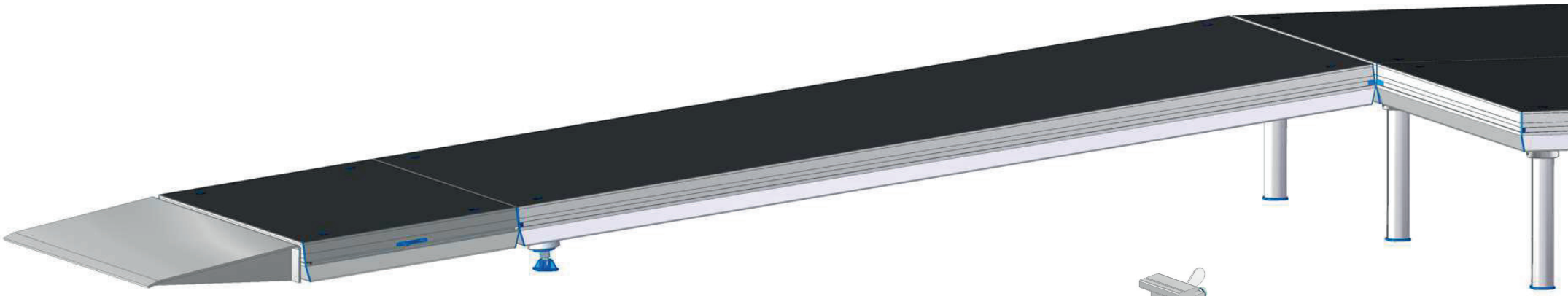
to connect push-on stairways and stage, at the legs

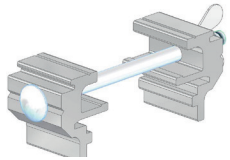
Art. No. 401 10 0 leg link 110 mm for leg distance **110 mm**, galvanised steel
Art. No. 401 11 0 leg link 150 mm for leg distance **150 mm**, galvanised steel



ramp construction & ramp accessories

To be able to build **ramps with gradients 3.44° = gradient 6%, 5° or 7.5°**, platforms are hooked into the groove side of the stage and locked in place in a few simple steps. For this, the following ramp accessories are required in addition to the platforms and the ball bearing legs:



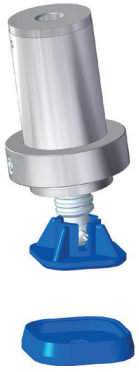


wedges for access ramp

Art. No. 405 01 0 with the width of 100 cm
Art. No. 405 02 0 with the width of 150 cm
The wedge is made of aluminium checker plate. It serves as the end piece of the ramp and is hooked directly into the last ramp platform.

platform links

Art. No. 401 20 0
made of aluminium. In addition to the locking mechanism, they serve as an additional link between the hooked-in ramp platforms and the stage. For a ramp with a width of 100 cm, 2 platform links are needed



KG 15 cm +2/-1

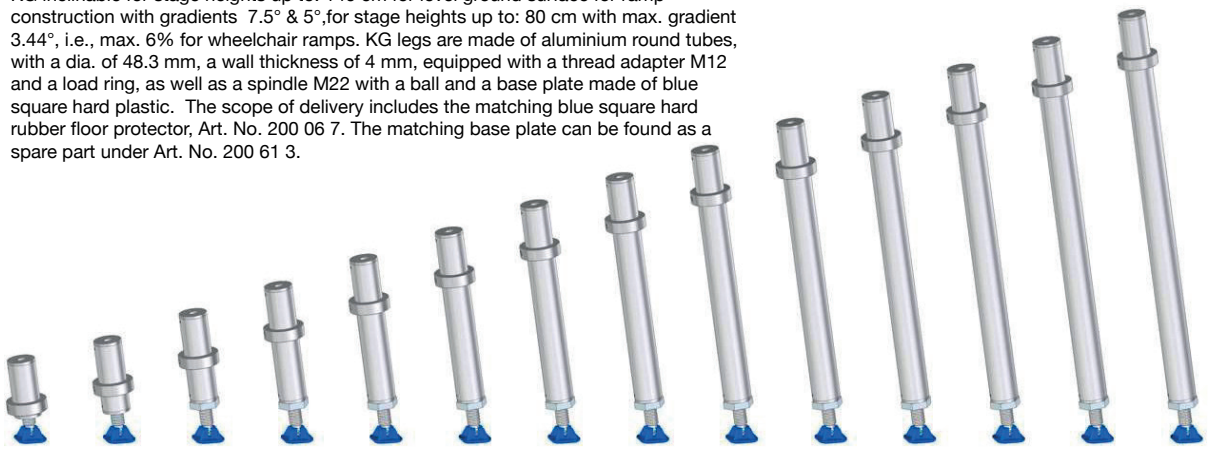
KG 20 cm +/-3

KG 25 cm +/-3

stairways & ramps, flexibly with nivtec

KG inclinable, gradients 7.5°, 5° & 3.44° for wheelchair ramps

KG inclinable for stage heights up to: 140 cm for level ground surface for ramp construction with gradients 7.5° & 5°,for stage heights up to: 80 cm with max. gradient 3.44°, i.e., max. 6% for wheelchair ramps. KG legs are made of aluminium round tubes, with a dia. of 48.3 mm, a wall thickness of 4 mm, equipped with a thread adapter M12 and a load ring, as well as a spindle M22 with a ball and a base plate made of blue square hard plastic. The scope of delivery includes the matching blue square hard rubber floor protector, Art. No. 200 06 7. The matching base plate can be found as a spare part under Art. No. 200 61 3.



KG 15 KG 20 KG 25 KG 30 KG 35 KG 40 KG 45 KG 50 KG 55 KG 60 KG 65 KG 70 KG 75 KG 80

KG ball bearing legs in the product range

KG 85 KG 90 KG 95 KG 100 KG 105 KG 115 KG 120

ramps at one glance

Overview of ramps 7,5°:

G037 / No.:306 02 0 / ramp rail H: 100 cm wedge 7,5° /-1°

h: [m]	angle	length [m] (without wedge)	KG [adj.range]		KG [adj.range]		KG [adj.range]		KG [adj.range]	
0,4	7,2°	2,5	15cm+2/-1	[160,2mm]						
0,6	7,4°	4	35cm+/-3	[355,5mm]						
0,8	6,8°	6	35cm+/-3	[336 mm]	60cm+/-3	[574,8 mm]				
1,0	7,5°	7	25cm+/-3	[229,3 mm]	50cm+/-3	[492,2 mm]	75cm+/-3	[754,9 mm]		
1,2	7,5°	8,5	15cm+2/-1	[163,6mm]	45cm+/-3	[427,6 mm]	70cm+/-3	[691,5mm]	95cm+/-3	[955,4mm]
1,4	7,5°	10	35cm+/-3	[362,3 mm]	65cm+/-3	[627 mm]	90cm+/-3	[891,8 mm]	115cm+/-3	[1156,3mm

Overview of ramps 5°:

G036 / No. 306 01 0 / ramp rail H: 100 cm wedge 5° +1,5/-0,5°

h: [m]	angle	length [m] (without wedge)	KG [adj. range]		KG [adj. range]		KG [adj. range]		KG [adj. range]		KG [adj. range]		KG [adj. range]	
0,4	4,5°	4	25cm+2/-1	[250,5mm]										
0,6	4,9°	6	25cm+/-3	[266 mm]	45cm+/-3	[437 mm]								
0,8	5,1°	8	30cm+/-3	[273,6mm]	45cm+/-3	[452,3mm]	65cm+/-3	[630,8mm]						
1,0	5,2°	10	30cm+/-3	[278,6mm]	45cm+/-3	[461,7mm]	65cm+/-3	[644,8mm]	85cm+/-3	[827,8mm]				
1,2	5,3°	12	30cm+/-3	[282,2mm]	45cm+/-3	[467 mm]	65cm+/-3	[653,7mm]	85cm+/-3	[839,6mm]	105cm+/-3	[1025,6mm]		
1,4	5,4°	14	30cm+/-3	[283,5mm]	45cm+/-3	[471,7 mm]	65cm+/-3	[660 mm]	85cm+/-3	[848,2mm]	105cm+/-3	[1036,4mm]	120cm+/-3	[1224,5mm]

Overview of ramps 3,44° = 6%

G038 / Nr.: 306 03 0 / ramp rail H: 100 cm wedge, ≦ 3,44°

h: [m]	angle	length [m] (without wedge)	KG [adj. range]		KG [adj. range]		resting area VS [adj. range]		KG [adj. range]		KG [adj. range]		KG [adj. range]	
0,2	3,2°	2												
0,4	3°	6	20cm+/-3	[196,9mm]	30cm+/-3	[300,5mm]								
0,6	3,26°	10,5	20cm+/-3	[206,8mm]	35cm+/-3	[320,5mm]	40cm+/-3	[429,9mm]	45cm+/-3	[434,4mm]	55cm+/-3	[548,0mm]		
0,8	3,4°	13,5	20cm+/-3	[212,4mm]	35cm+/-3	[331,2mm]	45cm+/-3	[445,1mm]	45cm+/-3	[449,7mm]	55cm+/-3	[568,3mm]	70cm+/-3	[686,7mm]

KG 25

KG 25

base plate for KG leg, square, Art. No. 200 60 5

Set up schemes: see “nivtec - ingeniously simple” – Edition 2026

rolling riser construction & rolling riser accessories

To be able to build rolling risers, transport wheels are inserted directly into the leg supports of the platforms. By combining nivtec rolling riser adapters made of galvanised steel and aluminium round tubes with dia. 48.3 mm, a wall thickness of 4 mm, with thread adapters and load rings, and transport wheels with dia. 10 cm or dia. 16 cm, installed as per the nivtec principle 4-2-2-1, stage platforms can be turned into rolling risers in heights of 40, 60 or 80 cm.

Apart from the platforms, a handful of rolling riser accessories are needed to **build rolling risers:**

Art. No. 803 01 0T transport wheel, dia. 10 cm, stage height: 22 cm
Art. No. 206 01 1T rolling riser adapter, stage height: 40 cm
Art. No. 206 02 1T rolling riser adapter, stage height: 60 cm
Art. No. 206 03 1T rolling riser adapter, stage height: 80 cm
Art. No. 803 02 0T transport wheel, dia. 16 cm, stage height: 28.5 cm
Art. No. 206 11 1T rolling riser adapter,
stage height: 40 cm
Art. No. 206 12 1T rolling riser adapter,
stage height: 60 cm
Art. No. 206 13 1T rolling riser adapter,
stage height: 80 cm

stage height : 22 cm

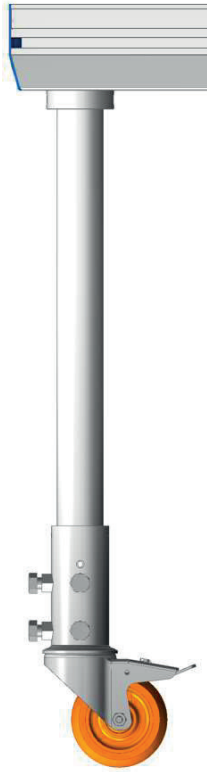
Art. No .803 01 0T
transport wheel, dia.10 cm
stage height: 22 cm

Art. No. 206 01 1T
rolling riser adapter,
stage height: 40 cm

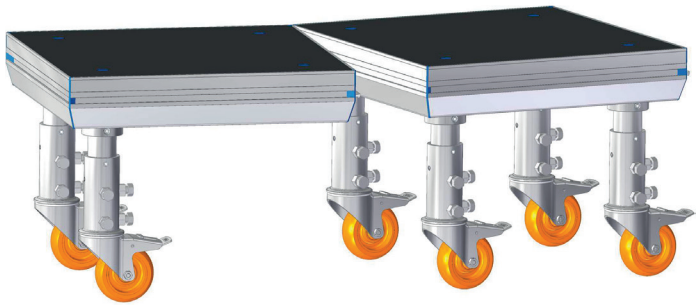
Art. No. 206 02 1T
rolling riser adapter,
stage height: 60 cm

Art. No. 206 03 1T
rolling riser adapter,
stage height: 80 cm

stage height: 80 cm



transport wheel, dia. 10 cm



transport wheel, dia. 16 cm

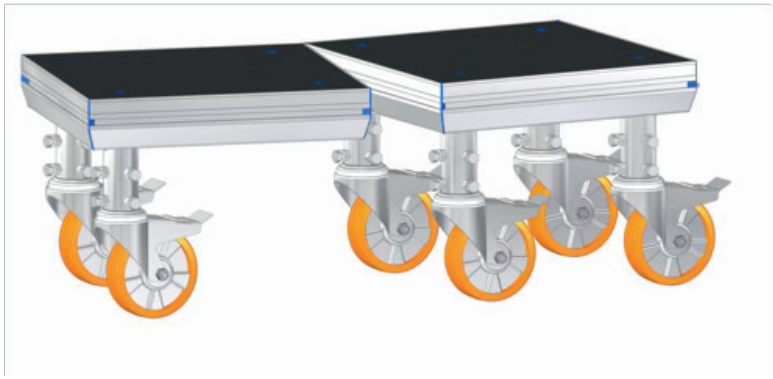
Art. No. 206 13 1T
rolling riser adapter,
stage height: 80 cm

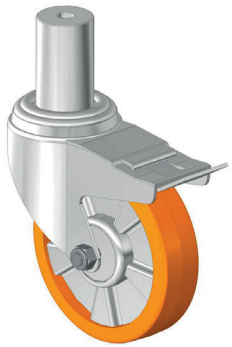
Art. No. 206 12 1T
rolling riser adapter,
stage height: 60 cm

Art. No. 206 11 1T
rolling riser adapter,
stage height: 40 cm

stage height: 28,5 cm

Art. No. 803 02 0T
transport wheel, dia.16
cm stage height: 28,5 cm





all types of legs in the product range:

LV fix standard version, tier height of 20 cm

LV fix for stage heights up to: 200 cm for level ground in stage & gallery construction. LV legs are made of aluminium round tubes, with dia. 48.3 mm, a wall thickness of 4 mm, equipped with a thread adapter M12 and a load ring as well as a load distributor leg cork made of hard rubber, square, removable, in blue. An additional option for use of the fix leg due to the removable leg cork: see LS+LV stepless in combination with Layher scaffold spindles LS 20 cm, LS 40 cm, LS 60 cm and LS 80 cm reinforced. You can find square hard rubber floor protectors in blue for LV legs under Art. No. 200 06 7, and the leg cork as a spare part under Art. No. 200 61 3.

LV fix load distributor legs
in the product range

leg cork for LV leg, square, Art. No. 200 61 3

floor protector for LV leg, square, Art. No. 200 06 7

sh: 20cm **sh: 40cm** **sh: 60cm** **sh: 80cm** **sh: 100cm** **sh: 120cm** **sh: 140cm** **sh: 160cm** **sh: 180cm** **sh: 200cm**

LV 40 cm **VS 40 cm**

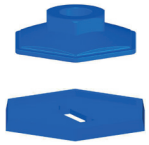
VS levelling standard version, tier height of 20 cm

VS levelling for stage heights up to: 200 cm to level out minor unevenness in the ground surface when building stages, galleries & stairways. VS legs are made of aluminium round tubes with dia. 48.3 mmm with a wall thickness of 4 mm, equipped with a thread adapter and a load ring, as well as an M22 levelling spindle with a levelling way of +/-3 cm and a hexagonal base plate made of hard plastic in blue; for stage heights exceeding: 40 cm with a lock nut. You can find hexagonal hard rubber floor protectors in blue for VS legs under Art. No. 200 06 6, and the base plate as a spare part under Art. No. 200 61 9.

VS levelling legs
in the product range

-3 cm **Nullstellung** **+3 cm**

base plate for VS leg, hexagonal, Art. No. 200 61 9



floor protector for VS leg, hexagonal, Art. No. 200 06 6

sh: 20cm **sh: 40cm** **sh: 60cm** **sh: 80cm** **sh: 100cm** **sh: 120cm** **sh: 140cm** **sh: 160cm** **sh: 180cm** **sh: 200cm**

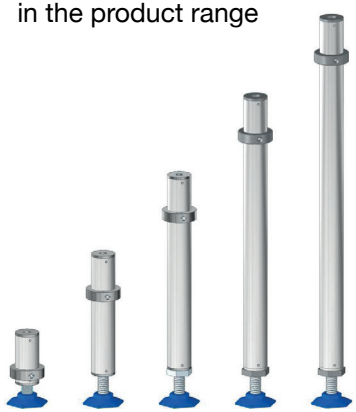
LV fix special version tier height 16.66 cm

LV fix for stage heights up to: 200 cm for ground level in stage & gallery construction. LV legs are made of aluminium round tube, dia. 48.3 mm, a wall thickness 4 mm, equipped with a thread adapter and a load ring as well as a load distributor leg cork made of hard rubber, square, removable, in blue. An additional option for use of the fix leg due to the removable leg cork: see LS+LV stepless in combination with Layher scaffold spindles LS 20 cm, LS 40 cm, LS 60 cm and LS 80 cm reinforced. You can find square hard rubber floor protectors in blue for LV legs under Art. No. 200 06 7, and the leg cork as a spare part under Art. No. 200 61 3.

LV fix load distributor legs in the product range

sh: 16,66 **sh: 33,33** **sh: 50,00** **sh: 66,66** **sh: 83,33**

VS levelling legs in the product range



sh: 16,66 **sh: 33,33** **sh: 50,00** **sh: 66,66** **sh: 83,33**

leg cork for LV leg, square, Art. No. 200 61 3

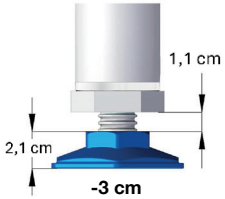
floor protector for LV leg, square, Art. No. 200 06 7

LV 16,66 cm

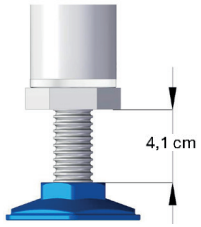
LV 33,33 cm

VS levelling special version, tier height 16.66 cm

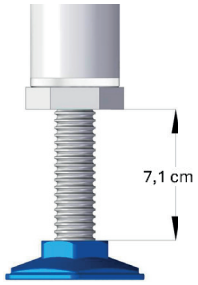
VS levelling for stage heights up to: 200 cm to level out minor unevenness in the ground surface when building stages, galleries & stairways. VS legs are made of aluminium round tubes with dia. 48.3 mm, with a wall thickness of 4 mm, equipped with a thread adapter and a load ring, as well as an M22 levelling spindle with a levelling way of +/-3 cm and a hexagonal base plate made of hard plastic in blue. For stage heights exceeding: 40 cm with lock nut. You can find hexagonal hard rubber floor protectors in blue for VS legs under Art. No. 200 06 6, and the base plate as a spare part under Art. No. 200 61 9



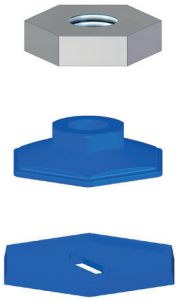
-3 cm



zero position



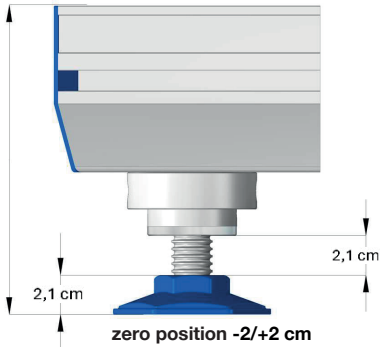
+3 cm



base plate for VS leg, hexagonal, Art. No. 200 61 9

floor protector for VS leg, hexagonal, Art .No. 200 06 6

stage height: 16,66 cm



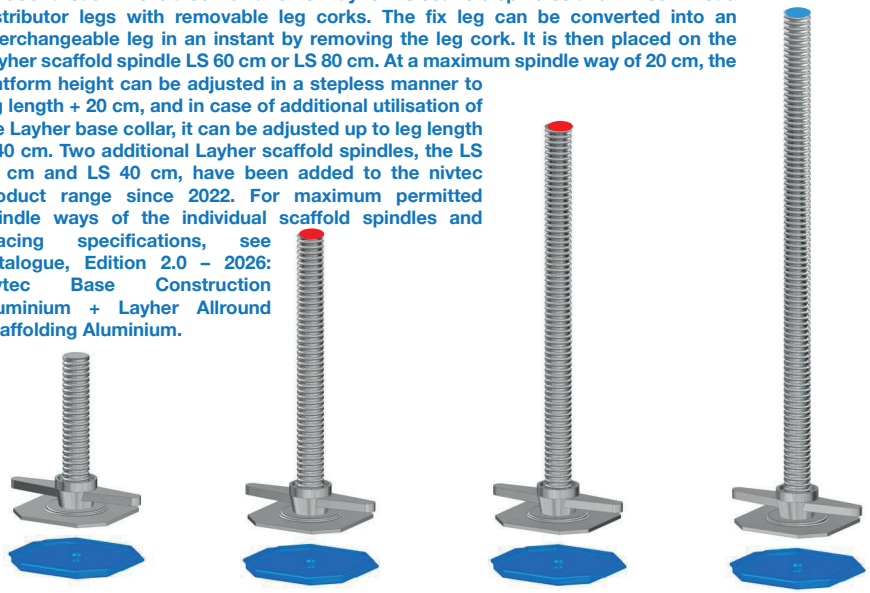
zero position -2/+2 cm

VS 16,66 cm

VS 33,33 cm

LS+LV stepless

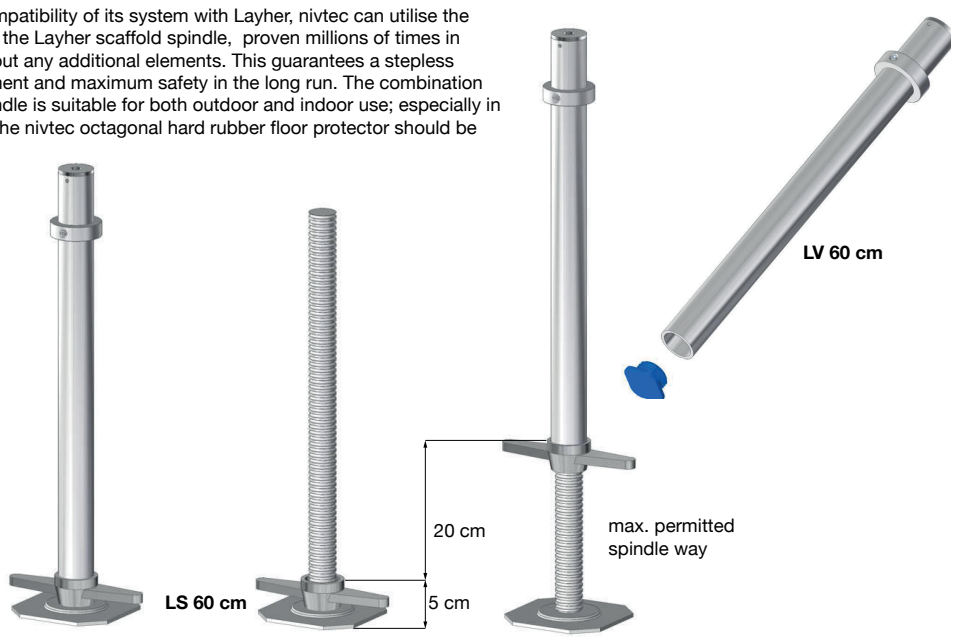
LS+LV stepless with Layher scaffold spindles LS for stage heights up to: 200 cm to level out larger unevenness in the ground surface when building stages and galleries, especially in outdoor areas. This is a combination of Layher LS scaffold spindles and nivtec LV load distributor legs with removable leg corks. The fix leg can be converted into an interchangeable leg in an instant by removing the leg cork. It is then placed on the Layher scaffold spindle LS 60 cm or LS 80 cm. At a maximum spindle way of 20 cm, the platform height can be adjusted in a stepless manner to leg length + 20 cm, and in case of additional utilisation of the Layher base collar, it can be adjusted up to leg length + 40 cm. Two additional Layher scaffold spindles, the LS 20 cm and LS 40 cm, have been added to the nivtec product range since 2022. For maximum permitted spindle ways of the individual scaffold spindles and bracing specifications, see catalogue, Edition 2.0 – 2026: nivtec Base Construction Aluminium + Layher Allround Scaffolding Aluminium.



LS 20 cm **LS 40 cm** **LS 60 cm** **LS 80 cm**

floor protector, octagonal for LS

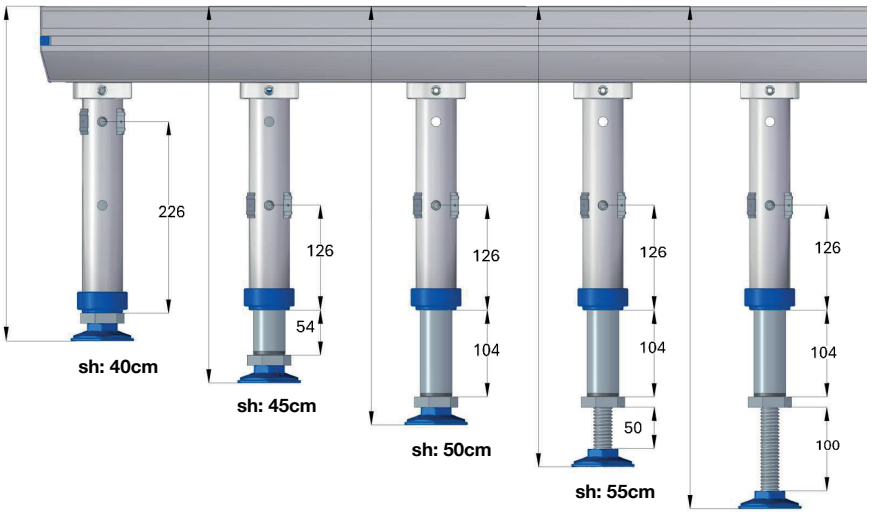
Due to the compatibility of its system with Layher, nivtec can utilise the advantages of the Layher scaffold spindle, proven millions of times in practice, without any additional elements. This guarantees a stepless height adjustment and maximum safety in the long run. The combination of leg and spindle is suitable for both outdoor and indoor use; especially in indoor areas, the nivtec octagonal hard rubber floor protector should be used.



TF extension (telescopic) leg, adjustable in 5 cm raster with fine levelling

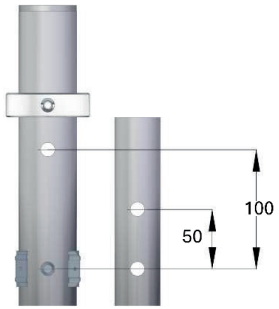
for stage heights up to: 60 cm to level out larger differences in height of the ground surface when building stages and galleries. The extension leg consists of an outer aluminium round tube with a dia. of 48,3 mm, a wall thickness of 4 mm, with a thread adapter and a load ring, and an inner steel round tube, with a dia. of 38 mm, and an M22 levelling spindle, with an adjustment range of +/-3 cm. The extension leg is equipped with a lock nut and a hexagonal base plate made of hard plastic, in blue. The extension leg is height-adjustable in 5 cm raster and it features a locking mechanism with a bolt clip and fine levelling by means of a levelling spindle. Hexagonal floor protectors made of hard rubber, in blue, suitable for extension legs, can be found under Art. No. 200 06 6, and the base plate as a spare part under **Art. No. 200 61 9.**

TF extension (telescopic) leg, adjustment height: 40 - 60 cm Art. No. 203 01 1



sh: 40cm **sh: 45cm** **sh: 50cm** **sh: 55cm** **sh: 60cm**

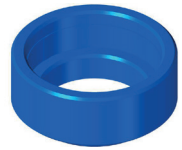
adjustment of the extension leg in raster 5 cm with an adjustment height of: 40 - 60 cm



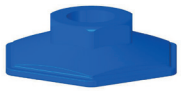
Important: first select the appropriate raster, then adjust the height using the levelling spindle!

For maximum permitted spindle way of the Layher scaffold spindle LS in combination with the nivtec LV leg: see Catalogue Edition 2.0 - 2026

bolt clip for TF leg, Art. No. 200 50 6



guiding collar for TF leg with a pin, Art. No. 200 60 2

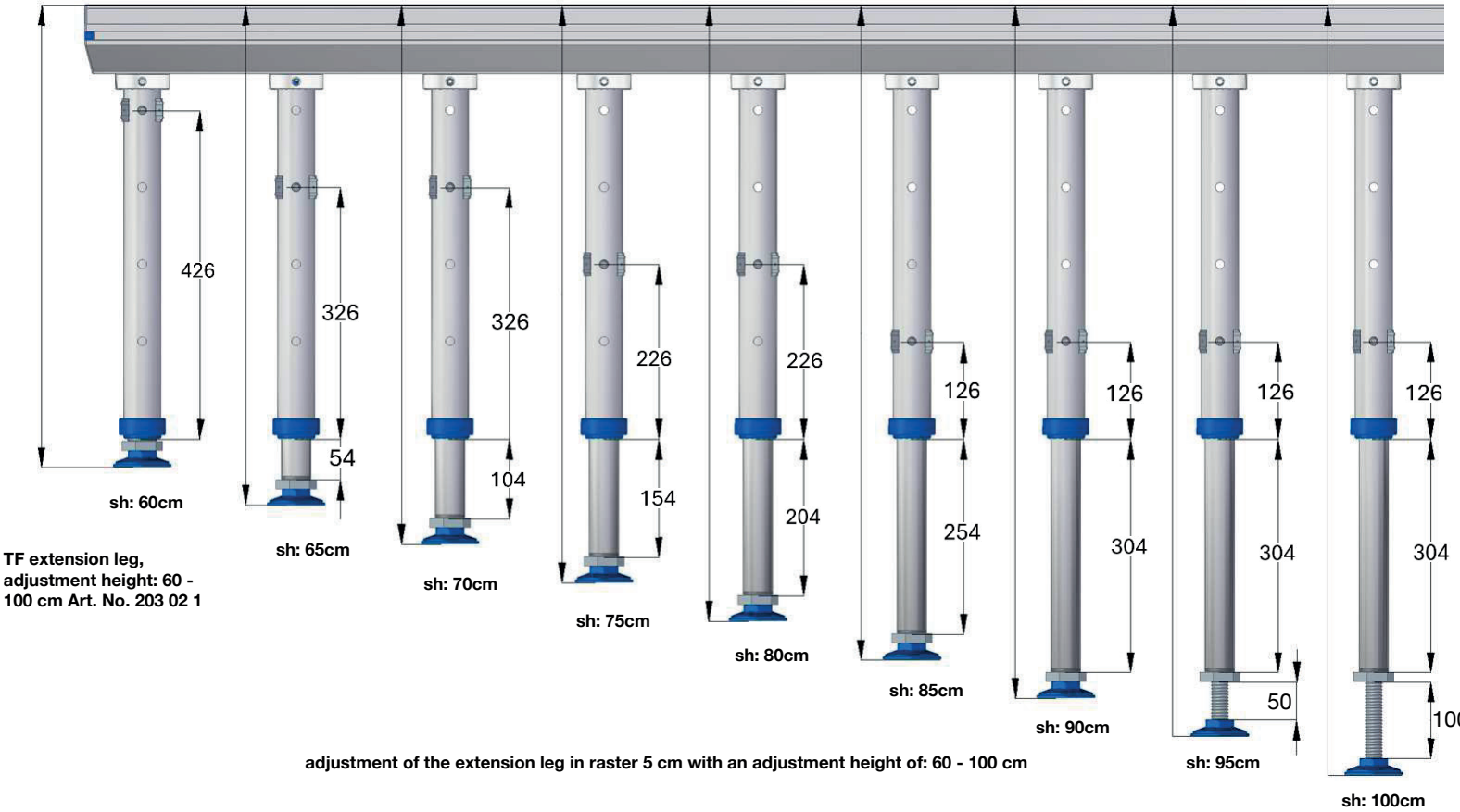


base plate for TF leg, hexagonal, Art. No. 200 61 9

floor protector for TF leg, hexagonal, Art. No. 200 06 6

TF extension (telescopic) leg, adjustable in raster 5 cm with fine levelling

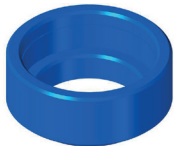
for stage heights up to: 100 cm to level out larger differences in height of the ground surface when building stages and galleries. The extension leg consists of an outer aluminium round tube, with a dia. of 48,3 mm, a wall thickness 4 mm, with a thread adapter and a load ring, and an inner steel round tube, with a dia. of 38 mm, with an M22 levelling spindle, with an adjustment range of +/-3 cm. The extension leg is equipped with a lock nut and a hexagonal base plate made of hard plastic, in blue. The extension leg is height-adjustable in 5 cm raster, and it featues a locking mechanism with a bolt clip and fine levelling by means of a levelling spindle. Hexagonal floor protectors made of hard rubber, in blue, suitable for extension legs, can be found under Art. No. 200 06 6, and the base plate as a spare part under Art. No. 200 61 9.



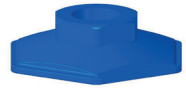
TF extension leg, adjustment height: 60 - 100 cm Art. No. 203 02 1

adjustment of the extension leg in raster 5 cm with an adjustment height of: 60 - 100 cm

bolt clip for TF leg, Art. No. 200 50 6

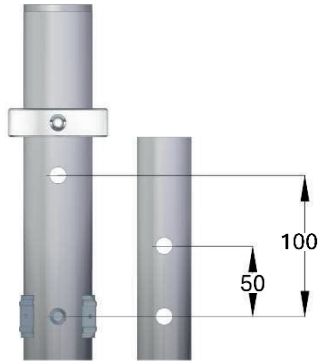


guiding collar for TF leg with pin, Art. No. 200 60 2



base plate for TF leg, hexagonal, Art. No. 200 61 9

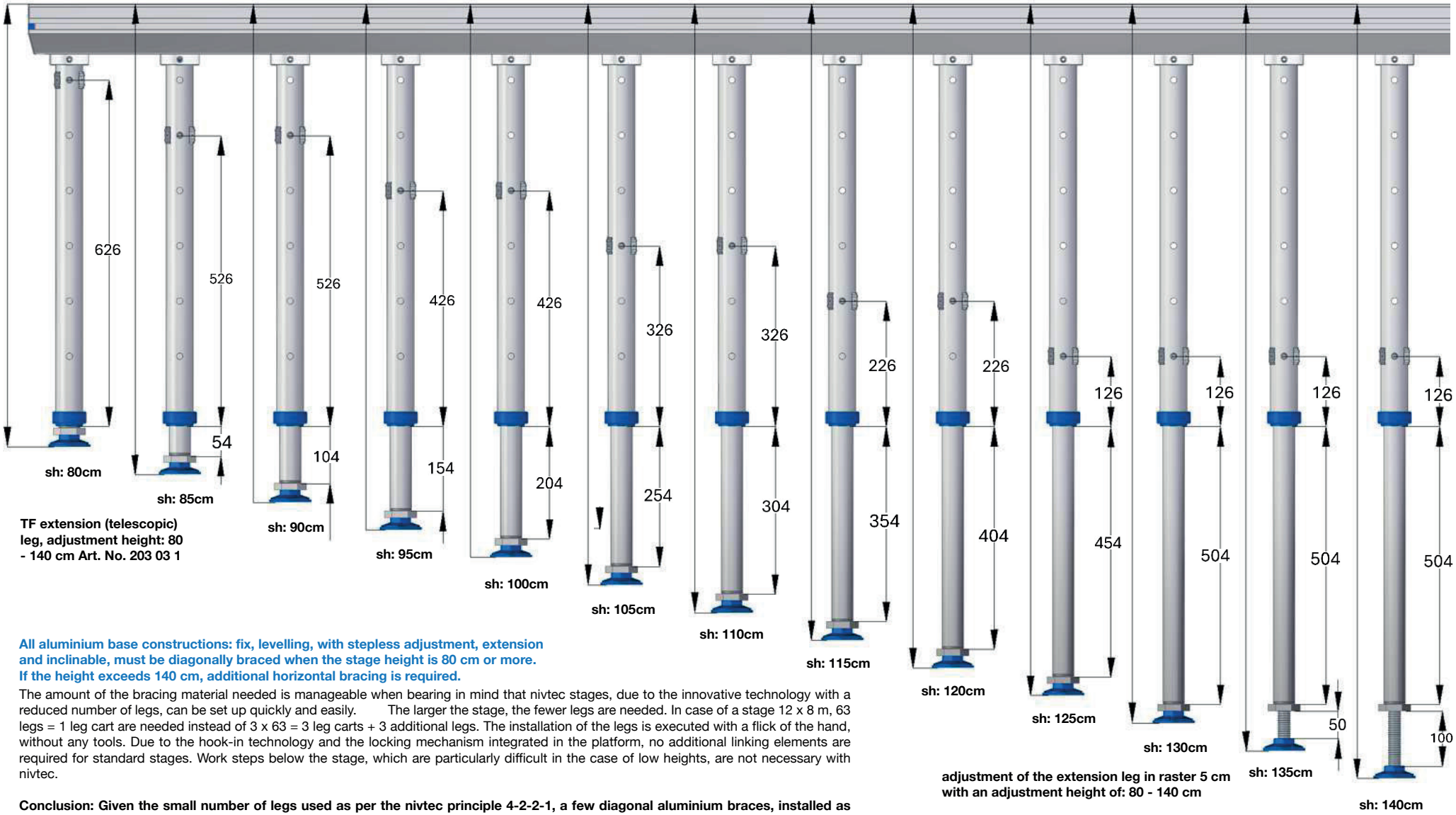
floor protector for TF leg, hexagonal, Art. No. 200 06 6



Important: first select the appropriate raster, then adjust the height using the levelling spindle!

TF extension (telescopic) leg, adjustable in raster 5 cm with fine levelling

for stage heights up to: 140 cm to level out larger differences in height of the ground surface when building stages and galleries. The extension leg consists of an outer aluminium round tube, with dia. 48,3 mm, a wall thickness of 4 mm, with a thread adapter and a load ring, and an inner steel round tube, with dia. 38 mm, with an M22 levelling spindle, with an adjustment range of +/-3 cm. The extension leg is equipped with a lock nut and a hexagonal base plate made of hard plastic, in blue. The extension leg is height-adjustable in raster 5 cm, and it features a locking mechanism with a bolt clip and fine levelling via a levelling spindle. Hexagonal floor protectors made of hard rubber, in blue, suitable for extension legs, can be found under Art. No. 200 06 6, and the base plate as a spare part under Art. No. 200 61 9.



TF extension (telescopic) leg, adjustment height: 80 - 140 cm Art. No. 203 03 1

adjustment of the extension leg in raster 5 cm with an adjustment height of: 80 - 140 cm

All aluminium base constructions: fix, levelling, with stepless adjustment, extension and inclinable, must be diagonally braced when the stage height is 80 cm or more. If the height exceeds 140 cm, additional horizontal bracing is required.

The amount of the bracing material needed is manageable when bearing in mind that nivtec stages, due to the innovative technology with a reduced number of legs, can be set up quickly and easily. The larger the stage, the fewer legs are needed. In case of a stage 12 x 8 m, 63 legs = 1 leg cart are needed instead of 3 x 63 = 3 leg carts + 3 additional legs. The installation of the legs is executed with a flick of the hand, without any tools. Due to the hook-in technology and the locking mechanism integrated in the platform, no additional linking elements are required for standard stages. Work steps below the stage, which are particularly difficult in the case of low heights, are not necessary with nivtec.

Conclusion: Given the small number of legs used as per the nivtec principle 4-2-2-1, a few diagonal aluminium braces, installed as specified, are simply a part of the set up.

Bracing Regulations & Assembly Instructions for aluminium diagonal braces in 4 variants & aluminium horizontal braces in 2 variants can be found in the Catalogue Edition 2.0 – 2026 nivtec Base Construction Aluminium + Layher Allround Scaffolding Aluminium.

Base Construction done quickly and safely, with nivtec

IV. G as in Geländer = Rails for stages, galleries & more

Rails are an important safety factor when setting up stages and galleries. Even when attaching stairways and ramps, a gap-free set up of rails on the whole construction should be paid attention to.
nivtec is offering all kinds of options to achieve this. Four multifunction openings in the panel are designed to accommodate the rail fastening devices. This ensures that the parts are firmly connected to the base construction. Additional leg supports with corresponding openings in the panel allow for the set up of rails even at special positions.
All rail variants are connected to the base construction as well as interconnected by means of the same fastening devices, all as per the motto “less is more”.

The most important rails versions in the portfolio are:
safety rails, height 100 cm, for stages
safety rails VERTICAL BARS, height 110 cm, for stages and galleries
STAIRWAY safety rails, height 100 cm, modular, tier height 20 cm
STAIRWAY safety rails VERTICAL BARS, height 110 cm, modular, tier height 16.66 cm

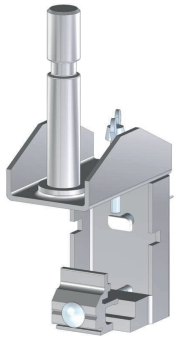
Rail colour options: Upon request, rails and rail accessories can be powder-coated in black against surcharge – see Catalogue nivtec **NOIR** Edition 4.0 – 2026. Due to the galvanisation and the powder coating, they feature double corrosion protection. To a limited extent, other colour options are possible.

Here you will find all **rail accessories** at one glance:

Please note!

required accessories per rails:
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 the 2 stage corners, you require:
4 corner links Art. No. 310 21 0
This ensures that all provisions for the gap-free set up of rails for nivtec stage and gallery constructions have been taken.

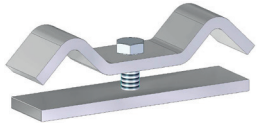


special rail support bolt, dia. 26 mm Art. No. 310 02 0
G016
steel, galvanised. The special support bolt, dia. 26 mm, complements the portfolio. It is typically used for rail configurations in which variable rails or special rails are utilised.

rail support bolt, dia. 26 mm

Art. No. 310 01 0
G015
steel, galvanised. After the removal of the plastic cap, the rail support bolt dia. 26 mm can be screwed directly into the thread adapter of the leg. Thus a firm connection is created between the rails and the base construction.

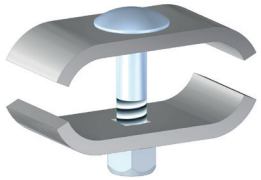
rail link for stage, 150 mm, reinforced
Art. No. 310 10 5
G017
steel, galvanised. On stages, the rails are connected to one another using reinforced rail links 150 mm.



rail link for gallery, 110 mm
Art. No. 310 11 0
G018
steel, galvanised. On galleries, the rails are connected to one another using rail links 110 mm. In case of galleries with base constructions with Layher spindles, reinforced, rail links 150 mm must be used.

adapter, dia. 48.3 mm,

Art. No. 310 20 0
G019
steel, galvanised. In spots where there are no legs due to their reduced number, the adapter dia. 48.3 mm, Art. No. 310 20 0, must be used.



corner link

Art.No. 310 21 0
G020
steel, galvanised. 2 corner links connect the rails that meet at the corner. Thus all rails form a firm connection with one another and with the base construction.

ratchet ring spanner AF 19

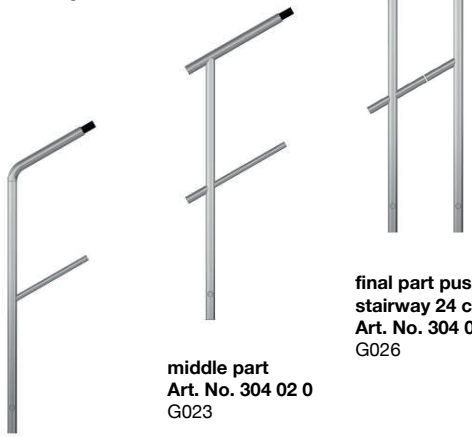
Art.No. 310 22 0
G021
steel, galvanised. The support bolts inserted into the rails are screwed in with the ratchet ring spanner AF 19.

safety rails, with a height of 100 cm

height 100 cm, made of steel pipe dia. 33.7 mm and galvanised. They are equipped with 2 horizontal bars and 1 handrail, are matched to the distances of the leg supports and/or of the multifunction openings, and are available in the following standard dimensions: 35, 85, 135 and 185 cm, matching the platform widths 50, 100, 150 and 200 cm. All rails are delivered with M12 x 20 hexagon head locking screws.
At nivtec, rails for additions such as stairways or ramps are connected to the stage or gallery construction. To ensure a gap-free rail set up, rail connection parts in the intermediate dimensions 10 and 15 cm are included in the scope of delivery by default.

stairway, tier height of 20 cm

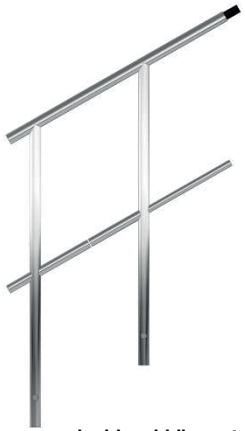
STAIRWAY safety rails, modular, for variable stairways, tier height 20 cm



middle part
Art. No. 304 02 0
G023

final part push-on stairway 24 cm
Art. No. 304 09 0
G026

first part
Art. No. 304 01 0
G022



double middle part
Art. No. 304 03 0
G024

final part hook-on stairway 35 cm
Art. No. 304 05 0
G027

stage

safety rail, 35 cm wide
Art. No. 301 01 0
G003

safety rail, 85 cm wide
Art. No. 301 02 0
G004

safety rail, 135 cm wide
Art. No. 301 04 0
G005

safety rail, 185 cm wide
Art. No. 301 03 0
G006

connection of the stairways to the stage

rail connection parts

height 100 cm, serve to close the gap between the stage rails and the stairway or the ramp rails in a wedge shape. The connection to the stage rails is executed using two corner links, Art. No. 310 21 0.

safety rail, 10 cm wide
Art. No. 301 00 4
G001

safety rail, 15 cm wide
Art. No. 301 00 5
G002

ramp

wedge-shaped ramp rails

height 100 cm, serve to close the gap between the ramp rails and the stage rails. The connection is executed on both sides by means of 2 corner links on each side, Art. No. 310 21 0. The version is always dependend on the gradient of the access ramp.

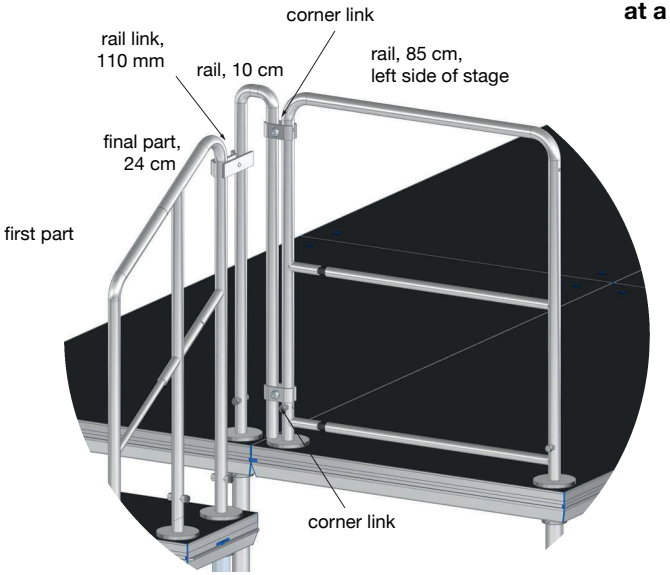
wedge-shaped ramp rail max. 6% = max. 3.44°
Art. No. 306 03 0
G038

wedge-shaped ramp rail, 5°
Art. No. 306 01 0
G036

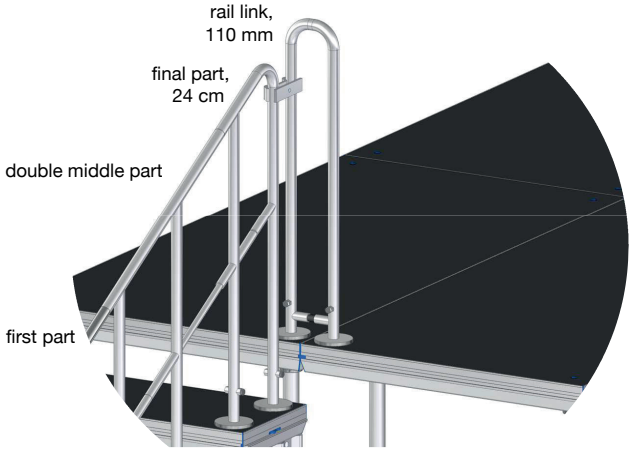
wedge-shaped ramp rail, 7.5°
Art. No. 306 02 0
G037

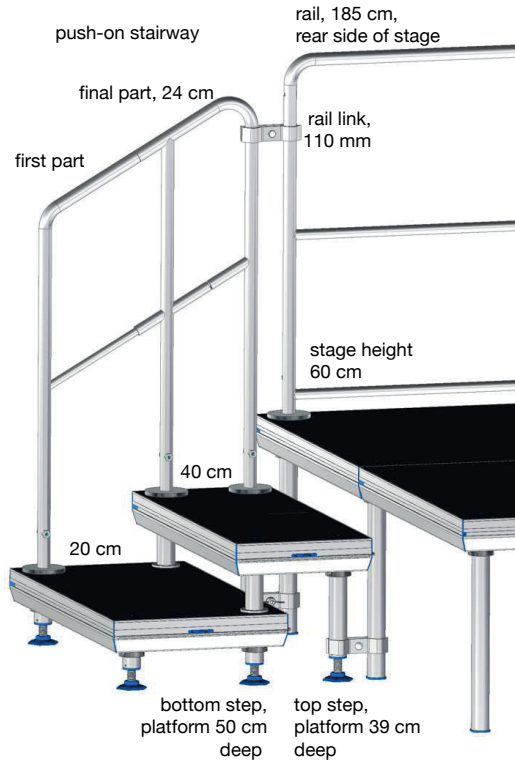
connection of the stairways with a tier height 20 cm to the stage

at a 90° angle



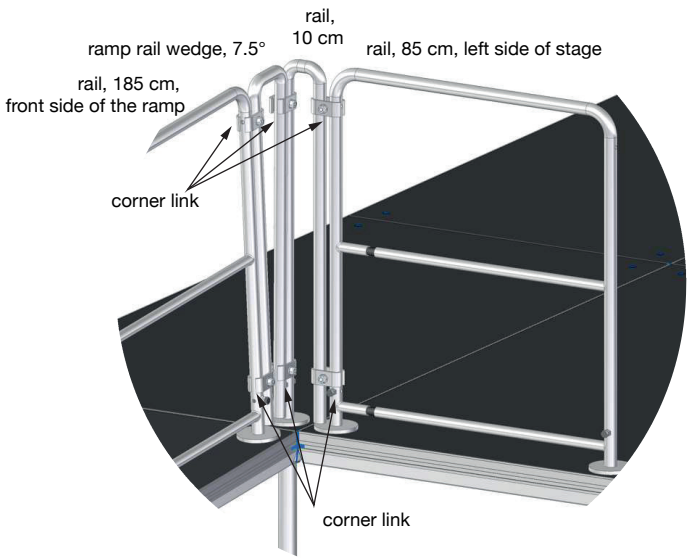
at a 180° angle

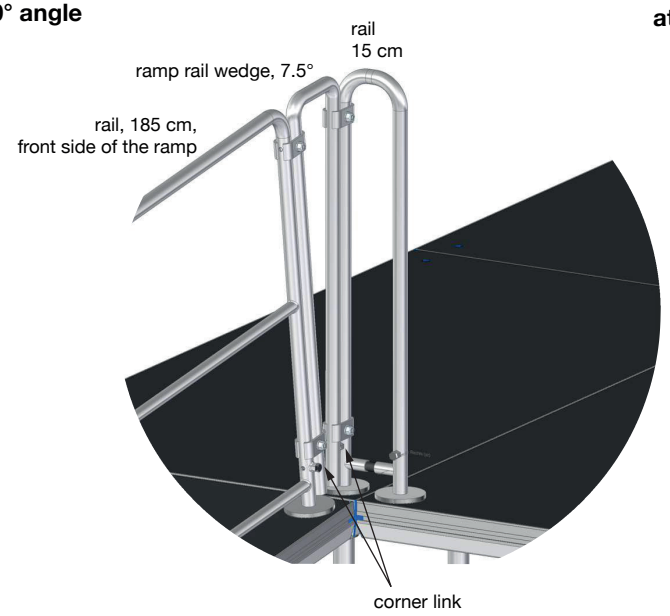




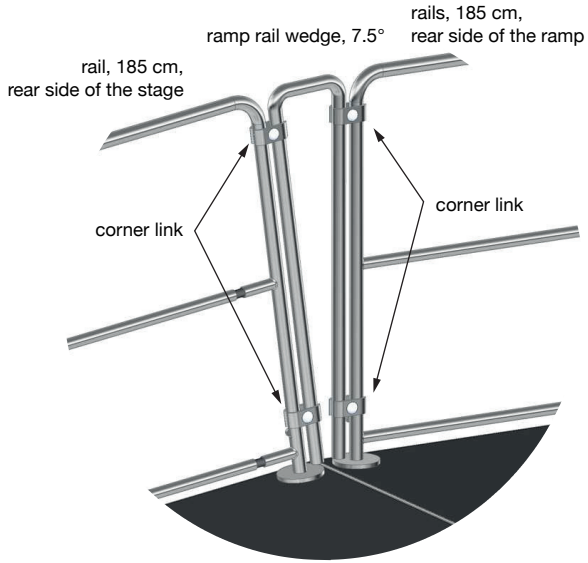
connection of the ramp with 7.5° gradient to the stage

at a 90° angle





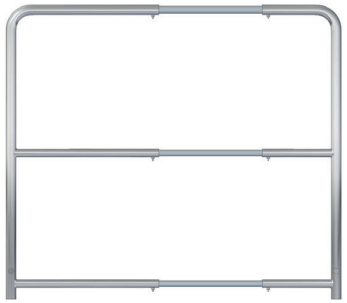
at a 180° angle



rails, variable height 100 cm,

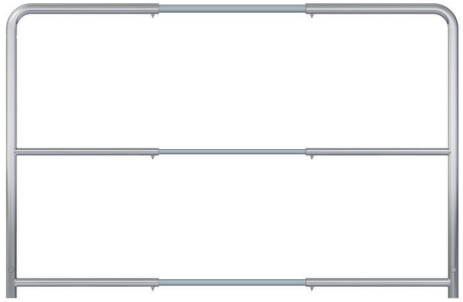
rails, variable
height 100 cm, variable width, serve to close gaps. The special support bolt, dia. 26 mm, Art. No. 310 02 0, is typically used for rail configurations in which variable rails or special rails are utilised. Variable rails are available in three sizes:

variable width 50 - 70 cm
Art. No. 302 01 0
G032



variable width 75 - 110 cm

Art. No. 302 02 0
G033

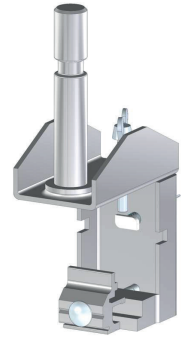


variable width of 100 - 150 cm

Art. No. 302 03 0
G034

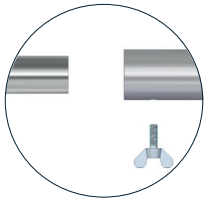
rails for circular shape

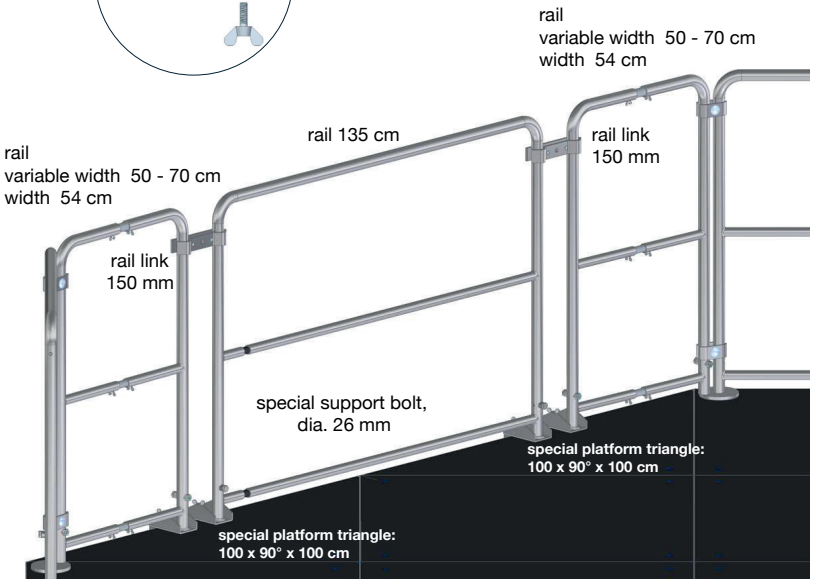
Art. No. 301 21 0
G035
height 100 cm. In the case of nivtec quadrant platforms with radius 100 cm, these can be securely attached to the base construction via the additional multifunction openings.

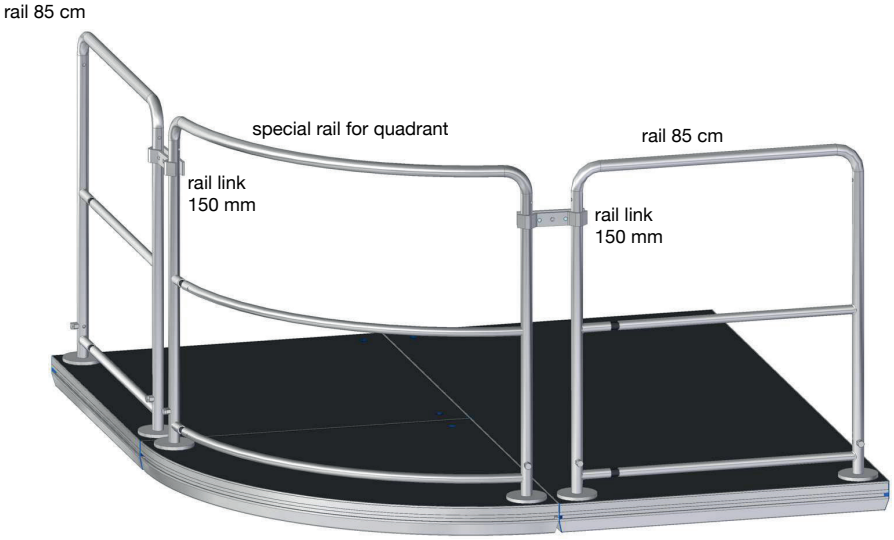


special rail support bolt, dia. 26 mm

Art. No. 310 02 0
G016
steel, galvanised. The special support bolt dia. 26 mm complements the portfolio. It is typically used for rail configurations in which variable rails or special rails are utilised.







special platform, quadrant, radius 100 cm

safety rails VERTICAL BARS, height 110 cm

height 110 cm, made steel pipes of dia. 33.7 mm and galvanised. They feature vertical steel bars spaced less than 12 cm apart. This version serves as child protection and is used primarily at public events, in schools and at clubs. In addition, they are also used in gallery construction. These rails are available in the same dimensions as the 100 cm safety rails.

stairways, with a tier height 16.66 cm

stairways rails VERTICAL BARS, modular for variable stairways, tier height 16,66 cm

first part
Art. No. 312 01 0
G028

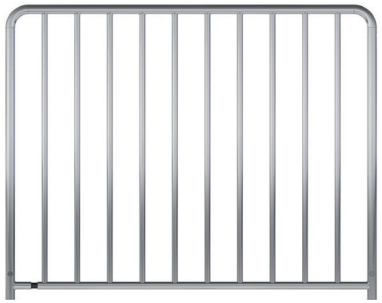
middle part
Art. No. 312 02 0
G029

final part 24 cm
Art. No. 312 09 0
G031

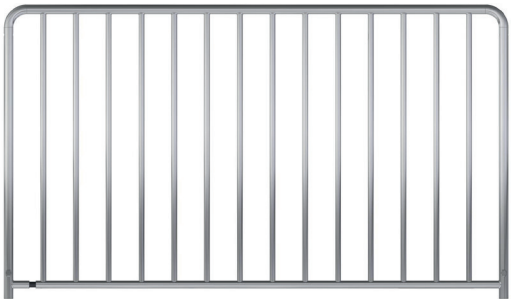
stage & gallery

safety rail VERTICAL BARS, 35 cm wide
Art. No. 303 01 0
G009

safety rail VERTICAL BARS, 85 cm wide
Art. No. 303 02 0
G010



safety rail VERTICAL BARS, 135 cm wide
Art. No. 303 04 0
G011



safety rail VERTICAL BARS, 185 cm wide
Art. No. 303 03 0
G012

connection of the ascents and descents to the stage

rail connection parts
height 110 cm, they serve to close the gap between the stage rails and the stairway or ramp rails in a wedge shape. The connection to the stage rails is executed using two corner links, Art. No. 310 21 0.

safety rail VERTICAL BARS, 10 cm wide
Art. No. 303 00 4
G007

safety rail VERTICAL BARS, 15 cm wide
Art. No. 303 00 5
G008

gallery, tier height 40 cm

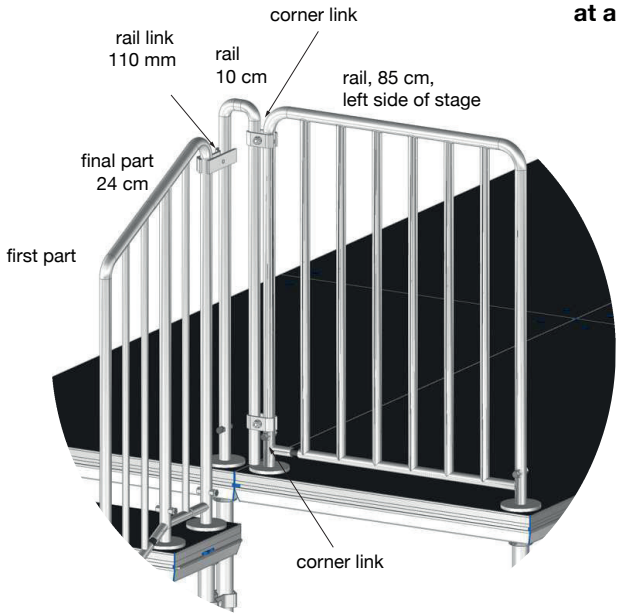
gallery safety rail VERTICAL BARS
height 110 cm, for galleries with tier height 40 cm, there are two versions with width 85 cm, depending on whether the stairways are positioned in the centre or at the side:

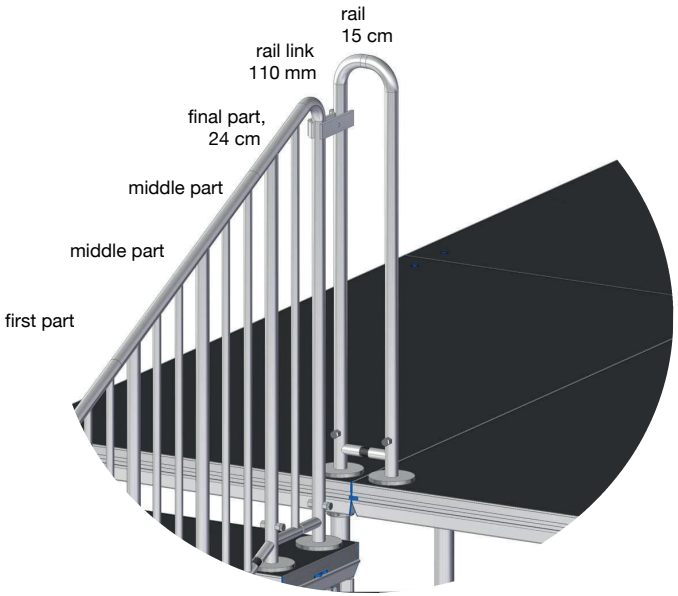
safety rail VERTICAL BARS 85 cm wide
without a step cut out, if the stairways are positioned in the centre.
Art. No. 303 10 0
G013

safety rail VERTICAL BARS 85 cm wide
with a 20 cm high step cut out, if the stairways are placed on the left-hand side or right-hand side.
Art. No. 303 11 0
G014

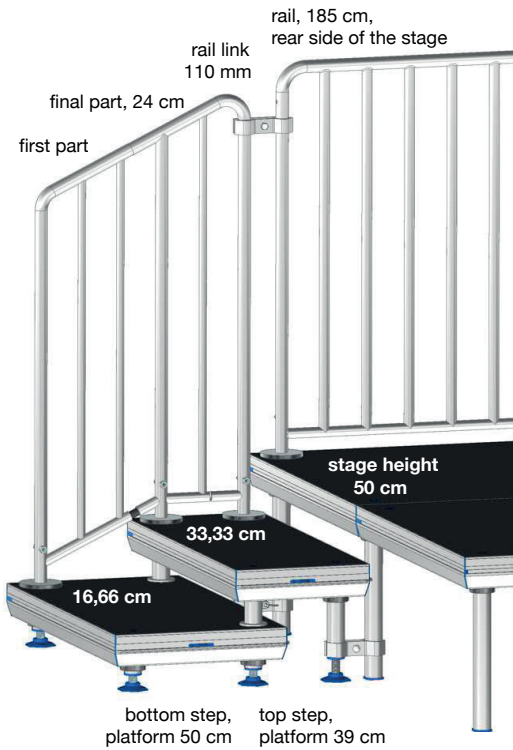
connection of the stairways with a tier height 16.66 cm to the stage

at a 90° angle





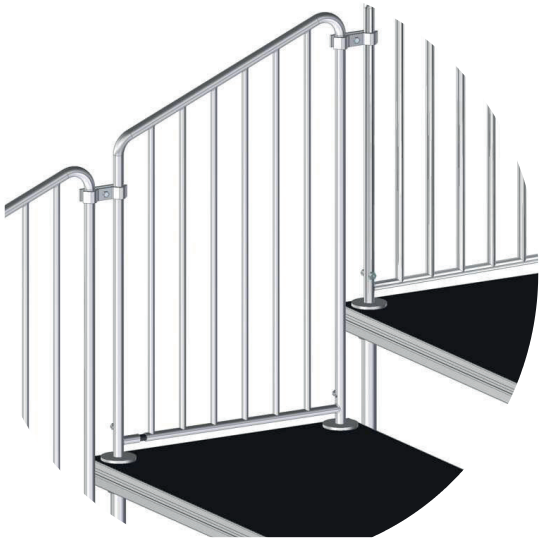
at a 180° angle



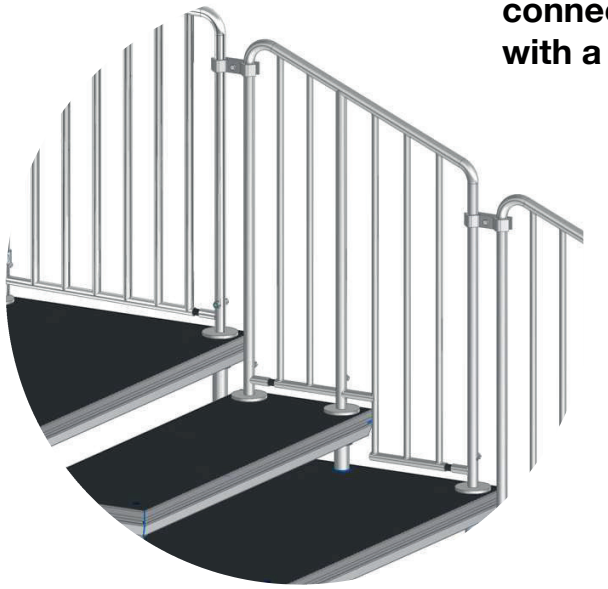
bottom step,
platform 50 cm
deep

top step,
platform 39 cm
deep

connection of the stairways to the gallery, with a tier height 40 cm

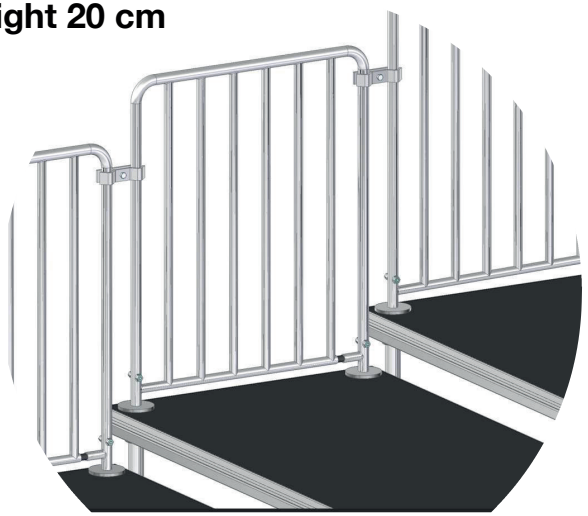


gallery - rail 85 cm
without a stairway cut out, if the
stairways are positioned centrally,
Art. No. 303 10 0



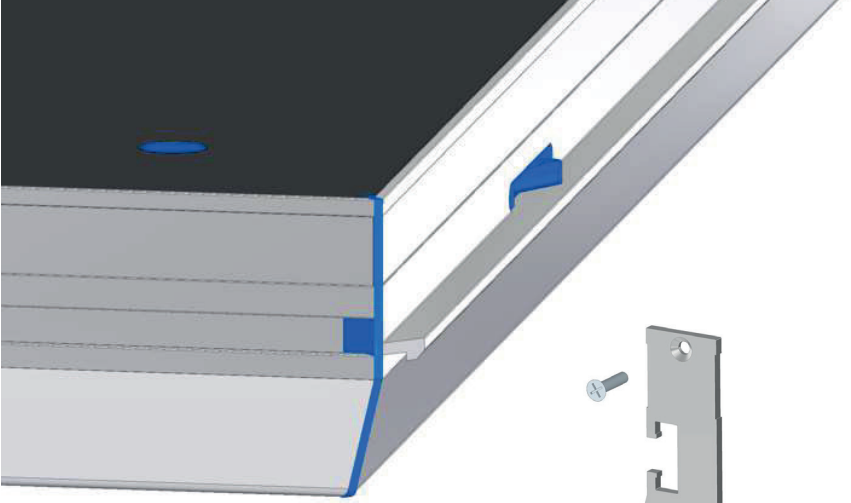
gallery - rail 85 cm
with a 20 cm high step cut out, if the stairways are
positioned on the side,
Art. No. 303 11 0

connection of the stairways to the gallery, with a tier height 20 cm



Side rails, 85 cm

gap-free rail set up with nivtec



End cap left L

End cap right R

V. Z as in Zubehör = Accessories

for stages, galleries & more

Simple stages and galleries are no longer the only constructions made of nivtec platforms. The event industry is growing and, as such, the market requirements are also changing with it. It is not only necessary for things to work quickly and easily, but the material is expected to also be flexibly usable and visually appealing.

To comply with these requirements, nivtec has added a reasonable number of well-thought-out accessories to its system portfolio that have been continuously developed , modified, and improved. Below the current product range is listed:

function laths

adapter laths for the tongue side of the platform

made of aluminium, serve as a reversal profile. They are hooked onto the tongue side and locked. 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 used as a link 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 rear and right hand-side edge platforms are placed on 2 legs each. The other platforms only require 1 leg. The adapter laths merely provide a link, but do not carry any load. The new version is equipped with replaceable distance nubs that are firmly seated in a borehole.

The new, precision-fit end caps can be attached to the right (end of the stage side) and left (start of the stage side) using 2 screws and they conceal the inside of the profile, preventing curious children's hands from exploring the inside of the profile.

The standard sizes are:

Art. No. 410 01 0 length: 100 cm
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

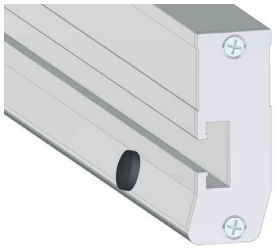
lining laths for the groove side of the platform

made of aluminium, are directly hooked into the groove side of the platform. A 2 cm high recess allows for gluing on the Velcro tape for the quick attachment of textile linings.

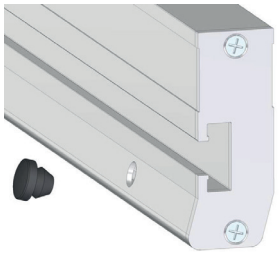
Due to the utilisation of the laths, the platform frame remains clean, and the impeccable appearance is maintained. As a result, platforms glued with tape that are therefore not truly flexible are a thing of the past.

The standard sizes are:

Art. No. 407 20 0 length: 100 cm
Art. No. 407 21 0 length: 200 cm

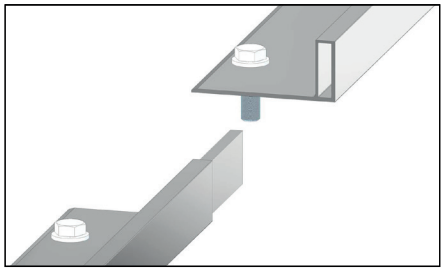


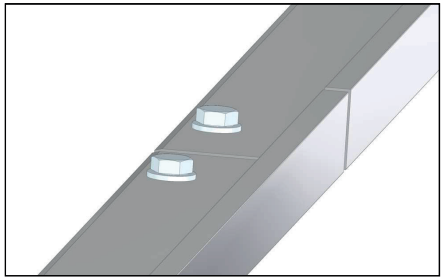
end cap left L incl. 2 countersunk screws ISO 7050 3.5 x16, galvanised Art. No. 406 10 1



distance nub EPDM70 distance knobs for adapter lath, black, Art. No. 410 00 1

We supply the right lath for any purpose!
Our strength lies in attention to detail in function and appearance.



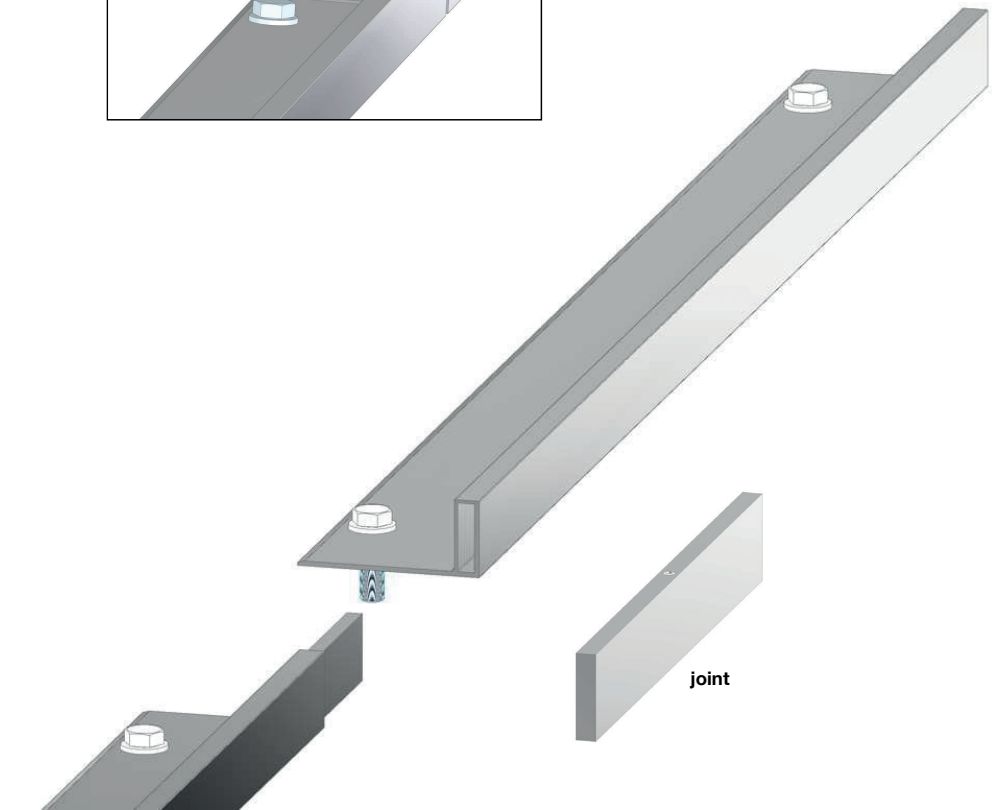


chair-blocking devices

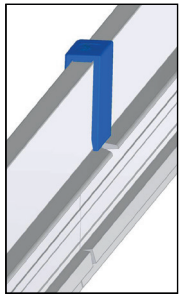
made of aluminium, are in the portfolio in a plain version. They are equipped with two openings and can be screwed directly to the base construction using the 2 hexagon head screws DIN 931 M12 x 50, galvanised and 2 washers DIN 125 A13 per device supplied as standard accessory. Where no leg is present, the use of an adapter dia. 48.3 mm, Art. No. 310 20 0, is required. In the case of galleries, these devices prevent chairs from sliding over the rear edge of the platform and loose parts from falling. The joint made of aluminium provide a firm linking between the devices.

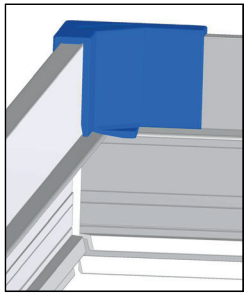
The standard sizes are:

Art. No. 705 01 0 length: 100 cm
Art. No. 705 02 0 length: 200 cm
Art. No. 704 03 0 joint



joint

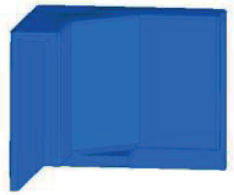




anti-tumbling board & lining lath 2-in-1 for the groove side of the platform

made of aluminium, serves as a combination of a lining lath and a chair-blocking device. It serves for securing the stage both towards the rear and laterally, and at the same time allows for the attachment of textile lining. Here, too, the platform frame remains clean. The anti-tumbling board, covered on the inside with a reflective warning marking, lets the artist identify the edge of the stage. Due to the use of gap and corner covers made of blue plastic at the seams, a continuous protection of the stage is achieved.

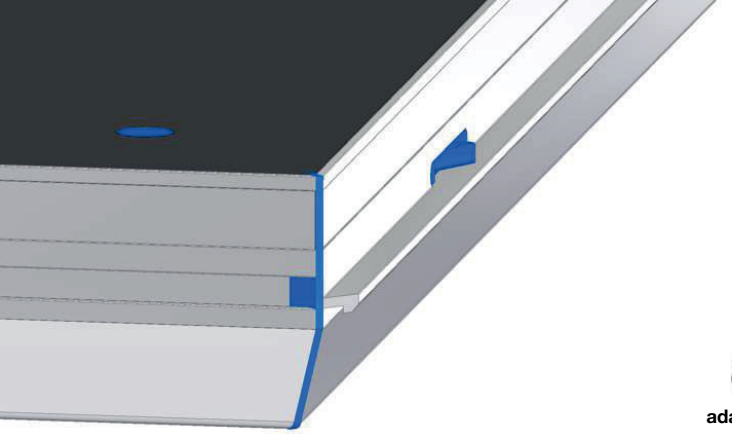
corner cover



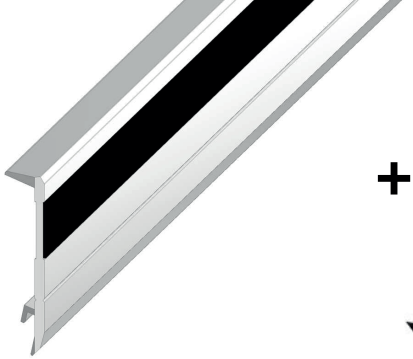
The standard sizes are:

Art. No. 409 20 0 length: 100 cm
Art. No. 409 02 0 length: 200 cm
Art. No. 409 50 1 corner cover
Art. Nr. 409 50 5 gap cover

gap cover



adapter lath



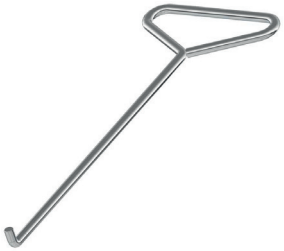
lining lath

+

velcro tape Pressogrip self-adhesive

20 mm wide, black, available as Art. No. 505 01 0 per running metre or Art. No. 505 25 0 as a roll of 25 m

miscellaneous



dismantling hook

Art. No. 404 01 0
made of steel, galvanised, helps when platforms are dismantled by a single person or in case of low stage heights. Subsequent to removing the cover cap, the hook grips the panel and separates the tongue and groove sides by lifting it up.

earthing unit

Art.No. 408 01 0
including 10m supply cable - needed for grounding stage or gallery constructions

textile lining

cable entry insert

for do-it-yourself installation in the platform panel. It consists of a black plastic frame with
external dimensions of 245 x 245 mm and a wooden panel inserted into the lid to match the surfaces of the platforms. There are two versions:

Art. No. 100 00 4 natural finish for indoor plywood 9 mm
Art. No. 100 00 5 black-brown for Hexa-Grip 12 mm

textile lining

permanently flame-retardant, in accordance with DIN 4102 B1, ready-made, smooth finish, with loop tape sewn to the top, supplied by the metre in black as a standard. The lengths of the lining correspond to the standard stage heights. There is one tried and tested version:
Art. No. 502 - TREND 350 g/sqm. Individual sizes can be manufactured at customer's request at a surcharge
Art. No. 500 00 1. different lengths and colours are available upon request.

VI. T as Transport = transport for stages, galleries & more

Our product portfolio, ranging from platforms through base constructions, stairway and ramp parts to rails and accessories for stages and galleries, can be dispatched quickly, compactly and easily with our transport and storage system. Here you will find the options at one glance:

for transport

transport wheels

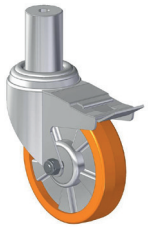
swivel wheels with brake. The polyurethane wheels with ball bearings are suitable for parquet and regular floors and are also suitable for outdoor use on firm and even ground. By inserting and securing
4 wheels dia. 48.3 mm wheel adapters into the leg supports of the platform, you can transform the platform into a stacking trolley in no time. Two different wheel diameters are available:

Art. No. 803 01 0T dia. 10 cm
reach a stage height of 22 cm with the platform and are suitable for transporting a maximum of 15 small platforms.

Art. No. 803 02 0T dia. 16 cm
reach a stage height of 28.5 cm with the platform and are suitable for transporting a maximum of 15 large platforms.

dia. 10 cm

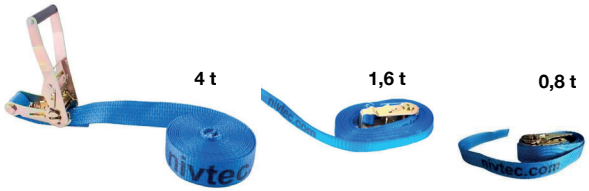
dia. 16 cm



securing elements

pushing handles

Art. No. 801 01 0
made of galvanised steel, allow for the comfortable movement of a whole stack of platforms, equipped with wheels, secured with belts, by directly hooking them into the groove side of a platform.



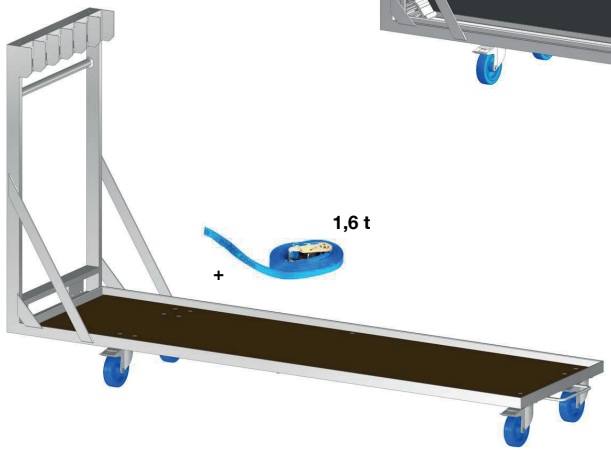
ring belts with ratchet lock

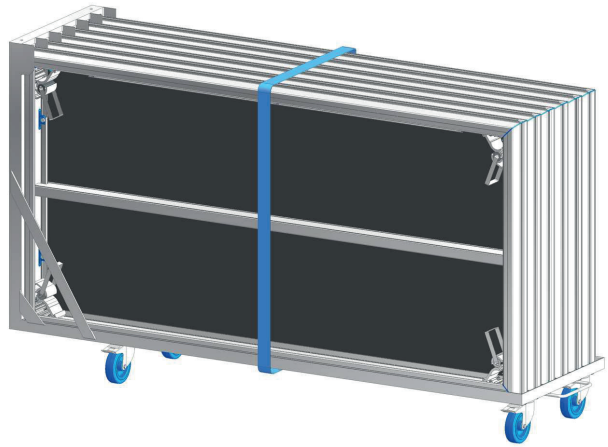
Our blue nivtec ring belts with ratchet lock are used for shipping and storage. They are
available in 3 different versions:

Art. No. 802 01 0
5 cm wide, 6 m long, 4 t tensile strength, for securing large platforms and parts during transport and storage.

Art. No. 802 02 0
2.5 cm wide, 5 m long, 1.6 t tensile strength, for securing smaller platforms and small parts during transport and storage.

Art. No. 802 805 0
2.5 cm wide, 3 m long, 0.8 t tensile strength, for securing legs and small parts during transport and storage.



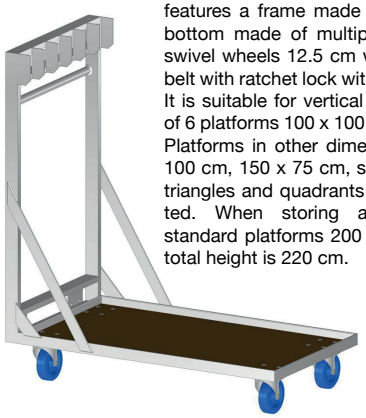


platform transport trolley, large

Art. No. 805 01 0
216 cm long x 59 cm wide x 120 cm high, features a frame made of galvanised steel, a bottom made of multiplex plywood panel, 4 swivel wheels 12.5 cm with brakes and 1 ring belt with ratchet lock with a tensile strength of 1.6 t. It is suitable for vertical storage and transport of 6 large platforms next to each other. Smaller platforms that are interlocked with one another can also be transported.

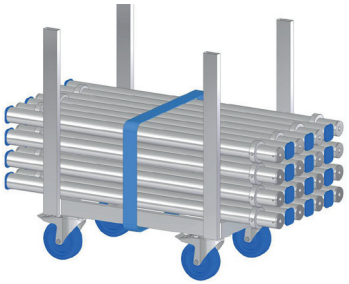
platform transport trolley, small

Art. No. 805 02 0
108 cm long x 59 cm wide x 120 cm high, features a frame made of galvanised steel, a bottom made of multiplex plywood panel, 4 swivel wheels 12.5 cm with brakes and 1 ring belt with ratchet lock with 1.6 t tensile strength. It is suitable for vertical storage and transport of 6 platforms 100 x 100 cm next to each other. Platforms in other dimensions such as 150 x 100 cm, 150 x 75 cm, special shapes such as triangles and quadrants can also be transported. When storing and transporting the standard platforms 200 x 100 cm upright, the total height is 220 cm.



1,6t

+



0,8t

+

transport trolley, small, for legs

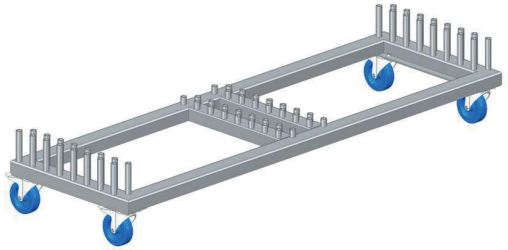
Art. No. 804 01 0
64 cm long x 48 cm wide x 75 cm high, features a frame made of galvanised steel, 4 swivel wheels 12.5 cm with brakes and 1 ring belt with ratchet lock with 0.8 t tensile strength. There is space for approx. 60 legs with a length of 80 cm or more on the trolley.

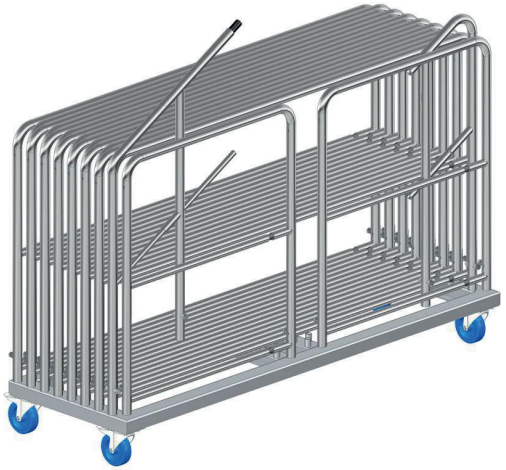
transport trolley, small, for small parts

Art. No. 804 03 0
64 cm long x 48 cm wide x 75 cm high, features a frame made of galvanised steel, 4 swivel wheels 12.5 cm with brakes. It features a bottom and side walls made of multiplex plywood panels and is delivered without a belt. It serves for storage of approx. 60 legs for a stage height of 60 cm or of small and accessory parts.

rail transport trolley, large

Art.No. 806 01 0
194 cm long x 60 cm wide x 33 cm high, made of galvanised steel, features 4 swivel wheels 12.5 cm with brakes and is suitable for holding 16 large rails or 32 small rails 85 cm. Smaller rails 35 cm, connecting parts 10 cm, ramp rails as well as stairway rails (first, middle and final parts) can be stored and transported as well.

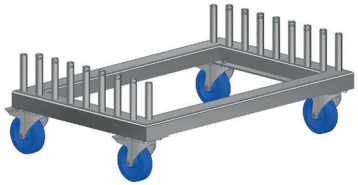




space-saving transport and storage with nivtec

rail transport trolley, small

Art. No. 806 02 0
94 cm long x 60 cm wide x 33 cm high, made of galvanised steel, features 4 swivel wheels 12.5 cm with brakes and is suitable for holding 16 small rails 85 cm. Smaller rails 35 cm, connecting parts 10 cm, ramp rails as well as stairway rails (first, middle and final parts) can be stored and transported as well..



VII. E as in Ersatzteile = spare parts for stages, galleries & more

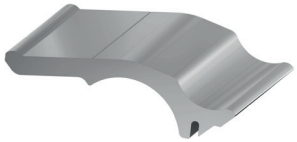
All parts of the nivtec staging system are maintenance-free. If worn or defective parts or moduels are identified during frequent set up and dismantling, these may only be replaced with nivtec spare parts

for platforms

Group	Art. No.	Description	KG	*
E001	100 14 4	spring for leg support	0,01	**L**
E002	100 14 2	P5 strap for leg support	0,17	**L**
E003	101 14 1	excenter with lever complete	0,16	**L**
E004	101 15 0	plastic locking mechanism Klick-Klack for short tongue side	0,02	**L**
E005	101 15 1	plastic locking mechanism Klick-Klack for long tongue side	0,02	**L**
E006	100 13 0	P7 lever for locking mechanism 1518 mm for 2m side	0,20	**L**
E007	100 13 1	P7 lever for locking mechanism 518 mm for 1m side	0,08	**L**
E008	100 15 7	corner cap for recessed corner, plastic blue	0,02	**L**
E009	100 15 4	protection cap for platform, plastic blue	0,01	**L**
E011	100 15 5	protection cap for platform, plastic clear	0,01	
E012	900 90 0	colour for Hexa-Grip black brown, tin 125 ml	0,29	

E001

E002

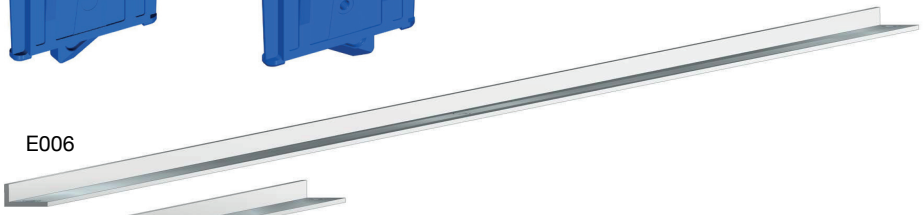


E003

E004

E005

E006



E007

E008

E009

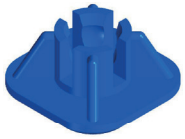
E011

E012

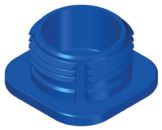
for base construction

E013	200 60 5	swivel base plate for ball bearing leg blue, square	0,02	**L**
E014	200 61 3	leg cork for load distributor leg blue, square	0,02	**L**
E015	200 61 9	base plate for levelling & extension leg blue, hexagonal	0,04	**L**
E019	200 50 6	bolt clip for telescopic leg	0,09	**L**
E033	200 60 2	guiding collar for telescopic leg incl. pin	0,35	**L**

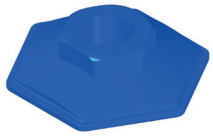
E013



E014

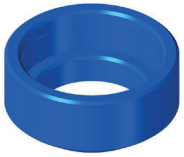


E015



E019

E033



for rails

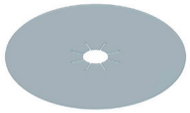
E023	300 10 1	dilation part Ø20 mm for stage rail 120mm incl. pin	0,04	**L**
E024	300 10 2	dilation part Ø26 mm for stairway rail 95mm incl. pin	0,05	**L**
E025	400 10 3	plastic washer for step support bolt Ø39 mm	0,01	**L**
E026	300 12 3	plastic washer for rail support bolt Ø26 mm	0,01	**L**
E027	900 10 6	hexagonal screw M12 x 20 for rail	0,02	**L**

E023

E024

E025

E026



E027

for accessories & more

E028	900 14 1	hammer-head screw M10 x 25 HS 28/15 for N-F link	0,02	**L**
E029	900 14 2	hammer-head screw M10 x 50 HS 28/15 for special support bolt	0,03	**L**
E030	900 22 2	wing screw M5 x 50 for N-F link	0,01	**L**
E032	410 00 1	distance nub EPDM70 for adapter lath, black	0,01	**L**
E031	800 10 3	transport wheel Ø12,5 cm for platform trolley	1,20	**L**

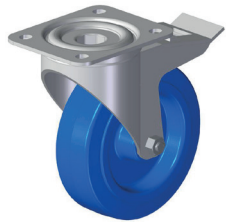
E028

E029

E030

E032

E031



TÜV THÜRINGEN

TÜV Thüringen e.V.

Service-Center Ostthüringen
Ernst-Ruska-Ring 6
07745 Jena
Telefon 03641 3997-0
Telefax 03641 3997-60

Vorstandsvorsitzender
Volker Höhnisch
Vereinsregister Erfurt, VR 160061

E-Mail: fliebau@tuev-thueringen.de
Internet: www.tuev-thueringen.de

Prüfstelle für Festigkeit und
Fliegende Bauten

TÜV Thüringen e.V. Ernst-Ruska-Ring 6 07745 Jena

nivtec-flexibel Bühnensysteme GmbH
Walter-Freitag-Str. 31
42899 Remscheid

Ihr Zeichen	Ihre Nachricht	Unser Zeichen	Direktkontakt	Datum
		Schu	35	12.02.2026

nivtec base constructions for stairways, ramps and rolling risers
In accordance with certificate 3300-12623-2025-01/02 we herewith confirm as follows:
A combination of nivtec legs in steel & alu version is not only possible for nivtec stages but also allowed for stairways, ramps and rolling risers.

Stairways with tier heights 20 cm & 16,66 cm (theatre tier height) with nivtec levelling legs VS
Stairways are built with nivtec platforms in combination with levelling legs made of round alu tube Ø 48,3 mm at tier height 20 cm. Stairways with tier height 16,66 cm show an even higher stability due to the reduced height from 20 cm to 16,66 cm. For stairways with tier height 20 cm and 16,66 cm as well as extended show stairways a distributed load of 7,5 kN/m² can be confirmed. VS legs and fix legs (LV) both in steel and alu versions well as telescopic legs can be combined for stairways.

Ramps with gradients of 3,44° (=gradient 6 %), 5° or 7,5° with nivtec ball bearing legs KG
Ramps are built with nivtec platforms in combination with ball bearing legs specially designed for ramps for gradients of 3,44° (=gradient 6 %), 5° or 7,5°. Calculations for nivtec stages are available. An additional horizontal load occurs due to the inclination angle of 3,44° - 7,5°, which already has been integrated in these calculations. Therefore, the distributed load of 7,5 kN/m² can also be confirmed for ramps.
First KG-legs have been made of round steel tubes (mat. S235), today they are made of round alu tubes (mat. EN AW-6005 A T6) with Ø 48,3 mm and wall thickness 4 mm. KG-legs can be used in steel & alu version can be combined for ramps. KG-legs are produced in fixed sizes from 15 to max. 120 cm for stage sizes up to max. 140 cm. Identical to stages ramps have to equipped with braces. Regulations nivtec alu have to be observed.

Rolling Risers with wheels Ø 10 cm or Ø 16 cm with nivtec extension adapters RR
Rolling risers can be built with nivtec platforms in combination with nivtec transport wheels Ø10 cm resp. Ø 16 cm and extension adapters RR. The assembly has to be executed according to the nivtec principle 4–2–2–1. Rolling risers may only be used on flat and level surfaces. The maximum size is 24 m². The maximum height is 80 cm without diagonal bracing.
The following distributed loads may not be exceeded:
- wheels Ø10 cm / wheel capacity 200 kg / permitted distributed load 1,5 kN/m²
- wheels Ø16 cm / wheel capacity 350 kg / permitted distributed load 2,5 kN/m²

For combinations of both wheel sizes the distributed load for wheels Ø 10 cm is permitted. Extension adapters RR have first been made of round steel tubes (mat. S235), today they are made of round alu tubes (mat. EN AW-6005 A T6) with Ø 48,3 mm and wall thickness 4 mm. Extension adapters RR both in steel and alu version can be combined.

S. Schubert

Dipl.-Ing. S. Schubert

attachment: nivtec base constructions for stairways, ramps and rolling risers

TÜV®

Technischer Überwachungs-Verein Thüringen e.V.

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Datum: 2026.04.17 10:29:28 +02'00'

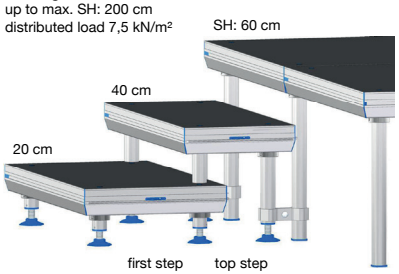
Qualität und Sicherheit aus dem Herzen Deutschlands

V 1.20.2

Attachment: nivtec base constructions for stairways, ramps and rolling risers

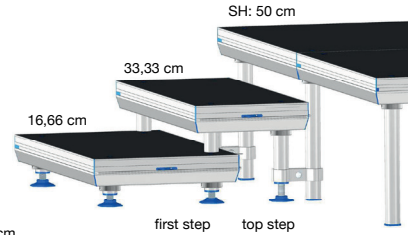
Stairways

tier height 20 cm
up to max. SH: 200 cm
distributed load 7,5 kN/m²



round alu tube Ø48,3 x 4 mm

tier height 16,66 cm
up to max. SH: 200 cm
distributed load 7,5 kN/m²

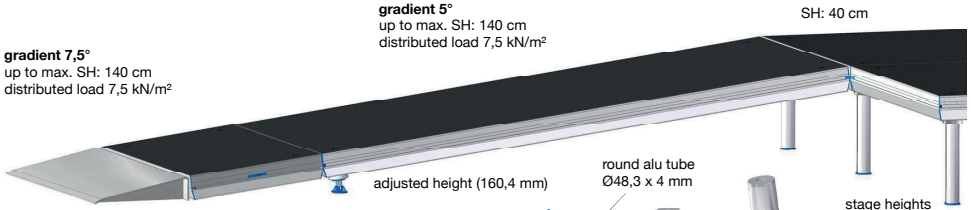


stage heights >40 cm – VS legs with lock nut

Ramps

gradient 5°
up to max. SH: 140 cm
distributed load 7,5 kN/m²

gradient 7,5°
up to max. SH: 140 cm
distributed load 7,5 kN/m²

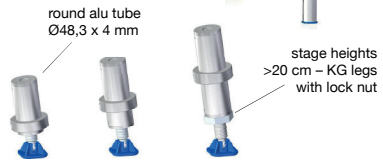


wheel chair ramps, **gradient ≤ 3,44°** = max. 6 %
up to max SH: 80 cm, widht 120 cm
distributed load 7,5 kN/m²

KG leg 15 cm
gradient 7,5 °

new!

round alu tube Ø48,3 x 4 mm



Rolling Risers

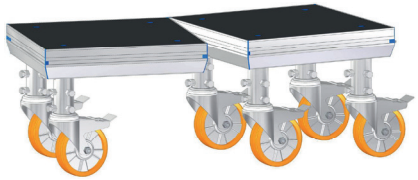
The assembly has to be executed according to the nivtec principle 4-2-2-1. Rolling risers may only be used on flat and level surfaces. The maximum size is 24 m². When using nivtec transport wheels in combination with nivtec extension adapters RR rolling risers can be built at heights 40 cm, 60 cm and 80 cm without diagonal bracing.

Wheel Ø10 cm
The following distributed loads may not be exceeded :
wheel Ø10 cm / wheel capacity 200 kg / permitted distributed load 1,5 kN/m²

Wheel Ø16 cm
The following distributed loads may not be exceeded :
wheel Ø16 cm / wheel capacity 350 kg / permitted distributed load 2,5 kN/m²

new!

round alu tube Ø48,3 x 4 mm



TÜV THÜRINGEN

TÜV Thüringen e.V.

Service-Center Ostthüringen
Ernst-Ruska-Ring 6
07745 Jena
Telefon 03641 3997-0
Telefax 03641 3997-60

Vorstandsvorsitzender
Volker Höhnisch
Vereinsregister Erfurt, VR 160061

E-Mail: fliebau@tuev-thueringen.de
Internet: www.tuev-thueringen.de

Prüfstelle für Festigkeit und
Fliegende Bauten

TÜV Thüringen e.V. Ernst-Ruska-Ring 6 07745 Jena

nivtec-flexibel Bühnensysteme GmbH
Walter-Freitag-Str. 31
42899 Remscheid

Ihr Zeichen	Ihre Nachricht	Unser Zeichen	Direktkontakt	Datum
		Schu	35	12.02.2026

nivtec safety rails for stairways and ramps

In accordance with certificate 3300-12623-2025-01/02 we herewith confirm as follows:

Stairways with tier height 20 cm with stairway safety rails, height 100 cm, plug in
During tests executed in 2012 stage rails (standard safety rails, height 100 cm, test report 3300-5550-2012) have been tested in sizes 35 cm, 85 cm, 135 cm and 185 cm. These rails can further be used and they are sufficiently measured. The stairway rails have been newly designed. One-piece rails have been substituted by plug-in rails (first, middle and final parts). As now there is one support bolt on each step there are more connections between stairway and rail, thus the stability has been enhanced. Test report 5563-2012 is still applicable. Rail widths smaller than 35 cm which are used for closing gaps between stage and stairway rails are also covered, provided tested original nivtec rail links are used.

Stairways with tier height 16,66 cm with vertical bar stairway safety rails, height 110 cm, plug in
During tests executed in 2012 stage rails (vertical bar safety rails, height 110 cm, test report 3300-5562-2012) have been tested in sizes 35 cm, 85 cm, 135 cm and 185 cm. These rails can further be used and they are sufficiently measured. The vertical bar stairway rails have been newly designed. One-piece rails have been substituted by plug-in rails (first, middle and final parts). As now there is one support bolt on each step there are more connections between stairway and rail, thus the stability has been enhanced. Test report 5564-2012 is still applicable. Rail widths smaller than 35 cm which are used for closing gaps between stage and stairway rails are also covered, provided tested original nivtec rail links are used.

Ramps with gradients 3,44°, 5° or 7,5° with safety rails
During tests executed in 2012 stage rails (standard safety rails, height 100 cm, test report 3300-5550-2012 and vertical bar safety rails, height 110 cm, test report 3300-5562-2012) have been tested in sizes 35 cm, 85 cm, 135 cm and 185 cm. These rails can further be used and they are sufficiently measured. Therefore, the stage rails can also be used for ramps. Rail widths smaller than 35 cm which are used for closing gaps between stage and ramp rails are also covered, provided tested original nivtec rail links are used. The specially developed ramp rail wedges are sufficiently structurally measured, provided nivtec corner links are used.

S. Schubert

Dipl.-Ing. S. Schubert

attachment: nivtec saftey rails for stairways and ramps

Qualität und Sicherheit aus dem Herzen Deutschlands

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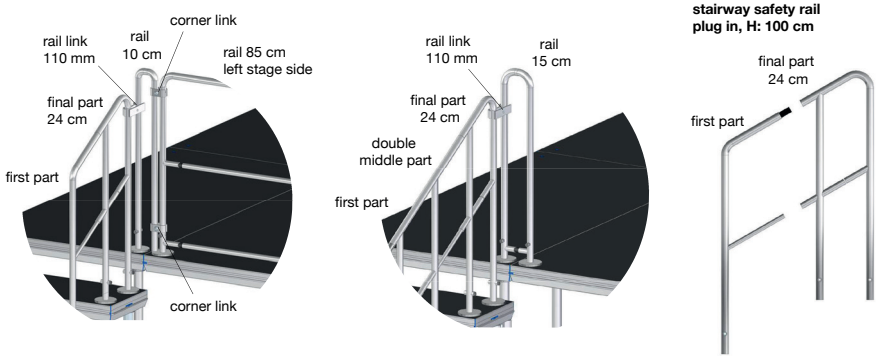
Datum: 2026.04.17 10:16:15 +02'00'

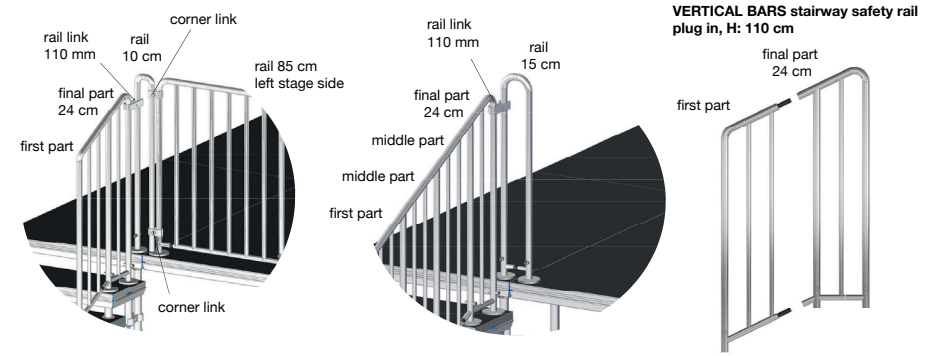
V 1.20.2

Attachment: nivtec safety rails for stairways and ramps

Stairways tier height 20 cm



Stairways tier height 16,66 cm



Ramp, gradient 7,5°, 5° and 3,44°