INNOTECH
HOW YOU PROTECT LIVES

Rail safety system

TAURUS

Horizontal

Rail system for horizontal use

AUSTRIA TRUSTED EXPERTISE

TAURUS-HORIZONTAL

Rail system for horizontal use

The TAURUS HORIZONTAL rail system is used wherever movements along a horizontally running pathway need to be protected from a fall risk. Regardless whether along roofs, facades, for overhead use, in industry or in connection with photovoltaic systems, it protects against falls from height, up to an inclination of 5°. A further significant benefit of the horizontal rail system is the flexibility in positioning of anchor points for the rope access method. This is an access process for activities such as installation and cleaning tasks in locations which are difficult to reach. By means of this method, users can position themselves at specific points on a building structure by using ropes and the appropriate safety system, in order to carry out the necessary tasks there.

BENEFITS

- Great flexibility provided by the fastening option to a multiplicity of substructures (concrete, steel, wood, PV substructures, etc) and on tiled roofs.
- Reduced installation effort because of rail fastener separations up to 5 m.
- Perfect mobility in the system thanks to the sliders specially developed for horizontal use (2 of them are removable).
- Simplification of rope access processes thanks to the variable anchor points (sliders) along the run of rail.

From June 2025, mounting bracket for tiled roofs (BEF-42) will be available.

Technical product description

The TAURUS system consists of high-quality alloyed aluminium rails. This rail, in combination with the various individual components, such as the specially developed connectors (optionally also with expansion compensation), end units, entry elements, and the individually adaptable curve elements, combine to create a harmonised system. The system can be attached to a large number of substructures, including tiled roofs. It is also compatible with many INNOTECH anchor points.

TECHNICAL BENEFITS

Rope access method
With a reduced fastening distance of 1 metre maximum, the TAURUS HORIZONTAL rail system is also certified for the rope access method.

Reduction of installation effort
When used as fall protection, a fastening separation of 3 metres applies.With additional appropriate measures, fastening distances up to 5 metres can be achieved, and in financial terms this has a positive effect on the whole installation process.

Detachable sliders
The standard slider models ensure optimum mobility in the system. In addition to the standard products, a series of HO sliders suitable for the system is also available. These are sliders which can be fitted and removed at any time anywhere along the whole run of rail.

Components and associated equipment

Components

TAURUS-TYP-10
Rating plate TYP-10 for horizontal rail system

Dimensions: 160 x 92 mm
Material: stainless steel (AISI 316), plastic
for identifying a horizontal rail system
Various fastening options!

TAURUS-TYP-11
Rating plate TYP-11 for horizontal rail system

Dimensions: 160 x 92 mm
Material: stainless steel (AISI 316), plastic
for identifying a horizontal, self supporting rail system
Various fastening options!

SOPV-AERO-TYP-TAURUS
Rating plate for TAURUS on AEROCOMPACT

Dimensions: 150 x 82 mm
Material: stainless steel (AISI 316), plastic
for identifying a horizontal rail system on AEROCOMPACT

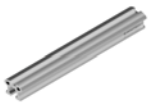
SOPV-K2-TYP-TAURUS
Rating plate for TAURUS on K2 SYSTEMS

Dimensions: 150 x 82 mm
Material: stainless steel (AISI 316), plastic
for identifying a horizontal rail system on K2 SYSTEMS

SOPV-NOVO-TYP-TAURUS
Rating plate for TAURUS on NOVOTEGRA flat roof 2 base rail

Dimensions: 150 x 82 mm
Material: stainless steel (AISI 316), plastic
for identifying a horizontal rail system on NOVOTEGRA flat roof 2 base rail

TAURUS-RAIL-10
Rail RAIL-10 for rail system



Length: 3000 / 6000 mm
Material: aluminium
rail element with a straight run

TAURUS-RAIL-20
Rail curve RAIL-20 for rail system

Inclination: 15°, 30°, 45°, 60°, 75°, 90°
Material: aluminium
Always install rail fastening (TAURUS-BEF) on the rail curved corner!

TAURUS-RAIL-30
Outer rail bend RAIL-30 for rail systems

Inclination: 90°
Material: aluminium
rail element for vertical and horizontal (facade) usage
Always install rail fastening (TAURUS-BEF) on the rail curved corner!

TAURUS-RAIL-40
Inner rail bend RAIL-40 for rail systems

Inclination: 90°
Material: aluminium
rail element for vertical and horizontal (facade) usage
Always install rail fastening (TAURUS-BEF) on the rail curved corner!

TAURUS-VB-10
Rail connector VB-10 for rail systems

Packaging unit: 1 piece / 5 pieces
Material: aluminium
connecting element for alignment of two TAURUS-RAIL elements

TAURUS-VB-11
Connector VB-11

Packaging unit: 1 Stück
Material: aluminium
Connector for two TAURUS-RAIL- rail elements with elongation adjustment

TAURUS-VB-12
Rail connection VB-12 for rail systems

Packaging unit: 2 pieces / 10 pieces
Material: galvanised steel
for the alignment of two TAURUS-RAIL elements
rail connection must only be used together with TAURUS-BEF-12!

Components

TAURUS-VB-13

Tension pin TAURUS-VB-13

Material: stainless steel V2A
Tension pin for Taurus 5m

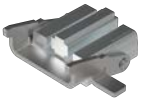
TAURUS-EA-10

Rail end closure EA-10 for rail systems

Material: stainless steel (AISI 304)
no access to the system possible (end of the rail)

TAURUS-EA-11

Rail end closure EA-11 for rail systems



Material: stainless steel (AISI 304), aluminium
To step-in and step-out of TAURUS-GLEIT!

TAURUS-TYP-40

Rating plate TYP-40 for Allround rail system

Dimensions: 160 x 92 mm
Material: stainless steel (AISI 316), plastic
for identifying an all-round rail system (vertical and horizontal)
Various fastening options!

Accessory items

TAURUS-BEF-10

Rail fastener BEF-10 for rail systems

Mountable on: concrete, facade, steel construction
Packaging unit: 1 piece / 5 pieces
Material: aluminium
for fastening TAURUS-RAIL on concrete, facade and steel construction

TAURUS-BEF-12

BEF-12 rail fastener for curves/bends

Substrate: steel construction, Innotech products,
Packaging unit: 5 pieces
material: V2A stainless steel (AISI 304)
for fastening in curve/arc radius and at the apice of TAURUS-RAIL-20/30/40.

TAURUS-BEF-13

Rail fastener BEF-13 for rail systems

Mountable on: steel construction
Packaging unit: 5 pieces
Material: stainless steel (AISI 304)
for fastening TAURUS-RAIL on steel construction

Accessory items

TAURUS-BEF-20

Rail fastener BEF-20 for rail systems

Mountable on: concrete, facade
Through boreholes: 120 mm
For mounting on concrete: 2 pcs. of adhesive anchors
Minimum drill depth for concrete: 100 mm
Material: stainless steel (AISI 304)
for fastening TAURUS-RAIL on concrete and facade

TAURUS-BEF-21

Rail fastener BEF-21 for rail systems

Substructure: concrete, steel construction
Installation depth concrete: min. 125 mm
Material: stainless steel V2A (AISI 304)
to attach the TAURUS-RAIL on to concrete and steel construction

TAURUS-BEF-30

Rail fastener BEF-30 for rail systems

Mountable on: STA post, concrete
Material: stainless steel (AISI 304)
for fastening TAURUS-RAIL on STA post

TAURUS-BEF-41

Rail fastener BEF-41 for rail systems

Mountable on: wood (min. 16/16 cm and accordingly the instruction manual)
Material: stainless steel (AISI 304)
for attaching TAURUS-RAIL to wood

TAURUS-BEND-10

Taurus bending device for Taurus rail

Bending device for TAURUS-RAIL-20/-30/-40
Bending angle = 0° - 85°
flexible installation of the rails directly on site
space saving packaging in a case and easy to transport

TAURUS-Z-91

Drilling template TAURUS-Z-91

Material: stainless steel V2A (AISI 304), steel
Drilling template for Taurus 5m

TAURUS-Z-92

Drilling template TAURUS-Z-91

Material: stainless steel V2A (AISI 304), steel,aluminium
Drilling template for TAURUS-VB-11

TAURUS-DW-10

Turntable gate DW-10 for rail systems

Material: aluminium, stainless steel (AISI 304)
Star handle for an additional rail access (T-application, 2x90°).
Can be realised as access|exit element in combination with TAURUS-EA-11
without interrupting the rail track.

TAURUS-GLEIT-H-11

Slider H-11 for rail systems

Inclination range: +/- 5°
Material: stainless steel (AISI 304)
rail slider for horizontal usage
Suitable for overhead systems!

TAURUS-GLEIT-A-31

Slider A-31 for rail systems

Material: stainless steel (AISI 304)
Rail slider including a shock absorbing element for the vertical usage and an additional anchorage eye for the horizontal usage.

TAURUS-GLEIT-HO-53

Glider HO-53 for rail systems

Tilt range: +/- 5°
Material: V2A stainless steel (AISI 304)
Removable rail slider for horizontal use Suitable for overhead systems!

TAURUS-GLEIT-HO-54

HO-54 glider for rail systems

Tilt range: +/- 5°
Material: V2A stainless steel (AISI 304)
Removable rail slider for horizontal use.
Not suitable for overhead systems (rail runs directly above the user)!

Accessory items

SOPV-AERO-TAURUS-SET-10
Fastening set for Taurus on AEROCOMPACT SN 2 / SN2+

Length: 1995 mm
Material: stainless steel, steel
For module widths of 1448-1779mm.

SOPV-AERO-TAURUS-SET-11
Fastening set for Taurus on AEROCOMPACT SN 2 / SN2+

Length: 1995 mm
Material: stainless steel, steel
For module widths of 1448-1779mm.

SOPV-AERO-TAURUS-SET-20
Fastening set for Taurus on AEROCOMPACT SN 2 / SN2+

Material: stainless steel, steel

SOPV-AERO-VB-SET-10
Connector for sliding base on AEROCOMPACT SN 2 / SN2+

Material: aluminum, stainless steel

SOPV-K2-TAURUS-SET-10
Fastening set for Taurus on K2 SYSTEMS BasicRail

Length: 1995 mm
Material: aluminum, stainless steel
For module widths of 1448-1779mm.

SOPV-K2-TAURUS-SET-11
Fastening set for Taurus on K2 SYSTEMS BasicRail

Length: 2365 mm
Material: aluminum, stainless steel
For module widths of 1780-2150 mm.

SOPV-K2-TAURUS-SET-20
Fastening set for Taurus on K2 SYSTEMS BasicRail

Material: aluminum, stainless steel

SOPV-K2-TAURUS-SET-30
Fastening set for Taurus on K2 SYSTEMS BasicRail

Length: 1995 mm
Material: aluminum, stainless steel
For module widths of 1448-1779mm.

SOPV-K2-TAURUS-SET-31
Fastening set for Taurus on K2 SYSTEMS BasicRail

Length: 2365 mm
Material: aluminum, stainless steel
For module widths of 1780-2150 mm.

SOPV-NOVO-TAURUS-SET-10
Fastening set for Taurus on NOVOTEGRA flat roof 2 base rail

Material: aluminum, stainless steel

SOPV-NOVO-TAURUS-SET-30
Fastening set for Taurus on NOVOTEGRA flat roof 2 base rail

Material: aluminum, stainless steel

SOPV-K2-TAURUS-SET-111
Fastening set for Taurus on K2 SYSTEMS BasicRail

Length: 2,365 mm
Material: stainless steel
For module lengths from 1,780 to 2,150 mm.

Accessory items

SOPV-K2-TAURUS-SET-130

Fastening set for Taurus on K2 SYSTEMS BasicRail

Length: 1,995 mm
Material: stainless steel
For module widths from 1,448 to 1,779 mm.

SOPV-K2-TAURUS-SET-131

Fastening set for Taurus on K2 SYSTEMS BasicRail

Length: 2,365 mm
Material: stainless steel
For module widths from 1,780 to 2,150 mm.

TAURUS-GLEIT-S-111

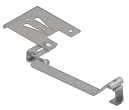
Taurus horizontal glider for rail systems

The S-111 was developed for use on horizontal surfaces and for the TAURUS and is specially designed to meet the requirements of modern façade solutions. Its optimised shape ensures that any forces are absorbed directly under the rail. The glider is suitable for curved rails and, thanks to its ingenious design, can also be used for descending and abseiling. Typical areas of application are facades or safety-relevant work areas at height. The high-quality V2A material guarantees a long service life, even in demanding weather conditions.

TAURUS-BEF-42

Rail fastener BEF-42 for rail systems

The TAURUS-BEF-42 connects the TAURUS rail to rafters on tiled roofs. It is installed directly in the centre of the rafter in the corrugation trough, ensuring maximum stability with a wide variety of tile types. The height adjustment of the BEF allows for compensation of differences in tile height. No recess is required, which saves time and protects the roof material. If there is an existing PV system on the pitched roof, the rail is installed above the PV module field. Access via a ladder in combination with an EAP, SDH or SLING system ensures safe access.



INNOTECH
HOW YOU PROTECT LIVES

Head office
INNOTECH® Arbeitsschutz GmbH

Laizing 10
A 4656 Kirchham
T +43 7619 22 1 22 - 0
office@innotech.at
www.innotech.at

Branch Office Switzerland
INNOTECH® Arbeitsschutz GmbH

Seestraße 14b
CH 5432 Neuenhof
T +41 56 41 69 040
office@innotechag.ch
www.innotechag.ch

Branch Germany
INNOTECH® Arbeitsschutz GmbH

In der Steinwiese 5
D 57074 Siegen
T +49 271 23 41 94 - 0
office@innotech.de
www.innotech.de