INNOTECH
HOW YOU PROTECT LIVES

SIMPLE TO INSTALL

TAURUS

Rail system

The TAURUS flexible rail system from INNOTECH for all substructures provides people in fall-risk locations with the option of securing themselves optimally to the mobile anchor point or to the guided type fall arrester. Manoeuvrable rail connections and end units can be installed very simply, and optionally available curvef and bent elements adapt perfectly to the actual constructional conditions. Three different sliders ensure unimpeded movement along the entire length of rail: The “Speed Control”, an automatic delay unit in the ALLROUND system, recognises fall speeds immediately. Should a fall occur, the “Allround” slider blocks immediately in all directions.

- Flexible rail system for every construction form indoors and outdoors
- Maximum freedom of movement along the entire length of rail
- With corresponding rail slider, also suitable for abseiling tasks
- Wide fastening spacing possible on all substructures
- Top-quality design, available in all colour styles
- Various slider types with ball bearings: horizontal, vertical, and Allround sliders
- The Allround slider blocks in all directions, traverses curves and bends horizontally and vertically.
- SPEED CONTROL
  The Allround slider is fitted with an automatic delay unit which, in the event of a fall, triggers immediately at a defined speed.
- MAINTENANCE-FREE
  The use of enclosed ball bearings means that the rail sliders do not require maintenance.
- Certification to the latest state of the art:

  Horizontal system:

  EN 795:2012 TYPE D
  CEN/TS 16415:2013

  Vertical system:
  already certified to the new standard EN 353-1:2014

  Allround system:
  EN 795:2012 TYPE D
  CEN/TS 16415:2013
  EN 353-1:2014

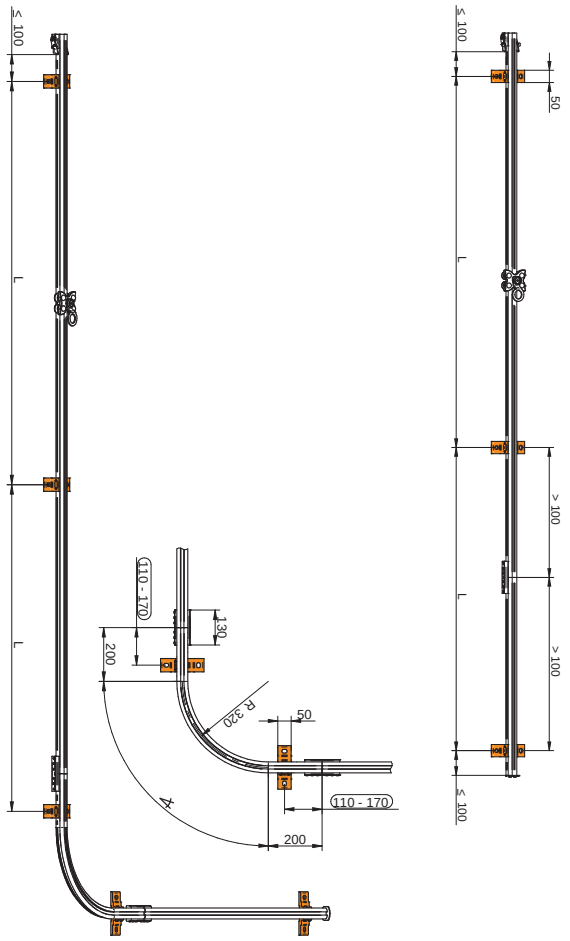
AUSTRIA TRUSTED EXPERTISE

Horizontal rail system

Wide fastening spacing possible on all substructures

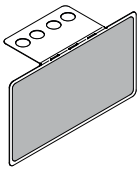
Various slider types with ball bearings:
Horizontal, vertical and Allround sliders.

With corresponding rail slider, also suitable for abseiling tasks.



TYP | RATING PLATE

TAURUS-TYP-10
TAURUS RATING PLATE, HORIZONTAL (EN 795 D)



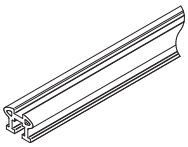
Material: Stainless steel (AISI 316), plastic
Dimensions: 160 x 92 mm

For the identification of a horizontal rail system

Various fastening options

RAIL | RAIL

TAURUS-RAIL-10
ALUMINIUM RAIL, STRAIGHT RUN

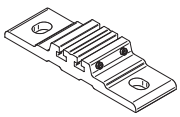


Material: aluminium
L = 3000 mm/6000 mm

Rail element with straight run

BEF | RAIL FASTENERS

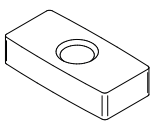
TAURUS-BEF-10
RAIL FASTENER FOR CONCRETE



Material: aluminium
Substructure: Concrete, facade, steel construction

for fastening TAURUS-RAIL to concrete, facade, and steel construction

TAURUS-BEF-12
RAIL FASTENER, STEEL CONSTRUCTION, SLIDING NUT M10

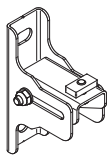


Material: stainless steel (AISI 304)
Substructure: steel construction

for fastening TAURUS-RAIL to steel construction

RAIL FASTENER

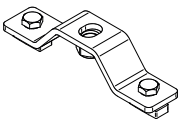
TAURUS-BEF-20
RAIL FASTENER FOR FACADE



Substructure: Concrete, facade
Hole spacing: 120 mm
Fastening for concrete: by means of 2x adhesive anchors
Fastening depth for concrete: min. 100 mm
Material: stainless steel (AISI 304)

for fastening TAURUS-RAIL to concrete and facade

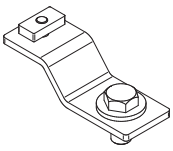
TAURUS-BEF-21
RAIL FASTENER



Material: stainless steel (AISI 304)
Substructure: Concrete, steel construction
Fastening depth for concrete: min. 125 mm

for fastening TAURUS-RAIL to concrete and steel construction

TAURUS-BEF-30
RAIL FASTENER, FASTENING ANGLE

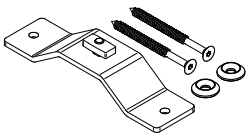


Substructure: AIO-STA post
Material: stainless steel (AISI 304)

for attaching TAURUS-RAIL to an AIO-STA post

RAIL FASTENER

TAURUS-BEF-41
RAIL FASTENER FOR WOOD

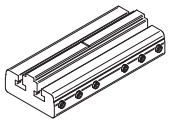


Material: stainless steel (AISI 304)
Substructure: Wood
(min. 16/16 cm or as per installation instructions)

for attaching TAURUS-RAIL to wood

VB | RAIL CONNECTOR

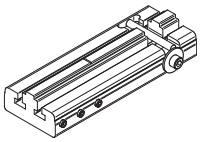
TAURUS-VB-10
RAIL CONNECTOR



Material: aluminium

Connector for two TAURUS-RAIL rail elements

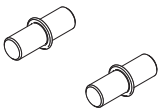
TAURUS-VB-11
RAIL CONNECTOR



Material: aluminium

Connector for two TAURUS-RAIL rail elements,
with expansion compensation

TAURUS-VB-12
RAIL CONNECTION

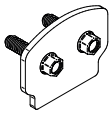


Material: galvanised steel

for the alignment of two TAURUS-RAIL rail elements
must be used only in combination with TAURUS BEF-12.

EA | RAIL END UNITS

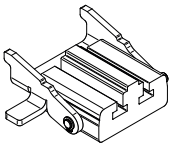
TAURUS-EA-10
RAIL END UNIT, FIXED



Material: stainless steel (AISI 304)

no entry possible (end unit for a rail section)

TAURUS-EA-11
RAIL END UNIT, VARIABLE

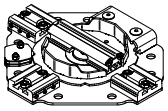


Material: Stainless steel (AISI 304), aluminium

Entry/exit for TAURUS-GLEIT

DW | TURNTABLE GATE

TAURUS-DW-10
RAIL TURNTABLE GATE

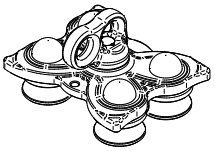


Material: aluminium, stainless steel (AISI 304)
Turning hub for an additional rail access
(T-application, 2 x 90°).

Can be used in combination with the TAURUS-EB-11 as an exit/entry,
without having to interrupt the track run.

GLEIT | RAIL SLIDER

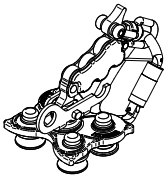
TAURUS-GLEIT-H-11
RAIL SLIDER, HORIZONTAL (EN 795 D)



Material: stainless steel (AISI 304)
Inclination range: +/- 5°

Suitable for overhead systems

TAURUS-GLEIT-A-31
RAIL SLIDER, ALLROUND (EN 353-1/EN 795)

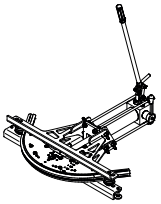


Material: stainless steel (AISI 304)

Rail slider with shock-absorbing element for vertical use,
and an additional anchorage eye for horizontal use

INSTALLATION ACCESSORY

TAURUS-BEND-10
TAURUS BENDING DEVICE FOR TAURUS-RAIL



Bending angle: 0° - 85°

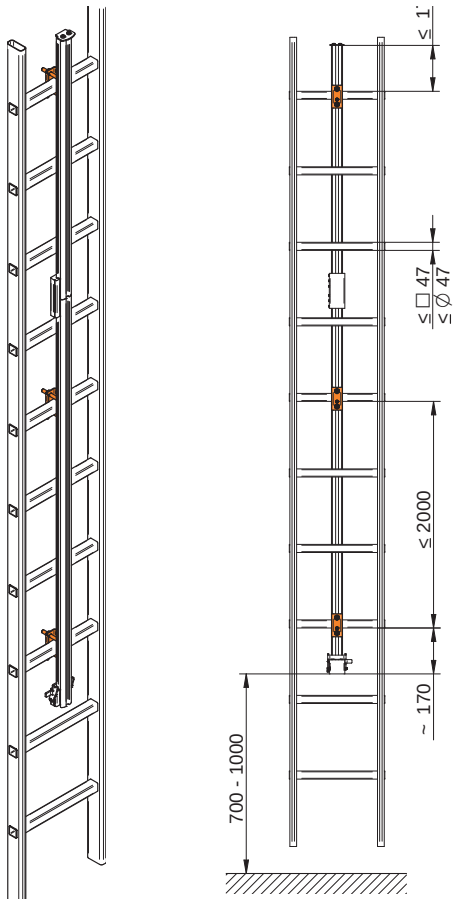
Flexible installation of the rails directly on site.
Space saving packaging in a case and easy to transport.

Vertical rail system

Wide fastening spacing possible on all substructures.

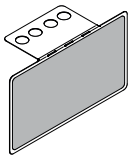
Various slider types with ball bearings:
Horizontal, vertical and Allround sliders.

With corresponding rail slider, also suitable for abseiling tasks.



TYP | RATING PLATE

TAURUS-TYP-20
TAURUS RATING PLATE, VERTICAL (EN 353-1)



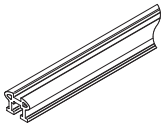
Material: Stainless steel (AISI 316), plastic

For the identification of a vertical rail system

Various fastening options

RAIL | RAIL

TAURUS-RAIL-10
ALUMINIUM RAIL, STRAIGHT RUN

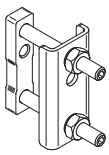


Material: aluminium
L = 3000 mm/6000 mm

Rail element with straight run

BEF | RAIL FASTENERS

TAURUS-BEF-90
RAIL FASTENER FOR LADDER

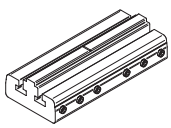


Material: stainless steel (AISI 304)
Substructure: ladder rung. Rung dimension: max. Ø 45 mm

for attaching TAURUS-RAIL to ladders

VB | RAIL CONNECTOR

TAURUS-VB-10
RAIL CONNECTOR

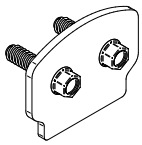


Material: aluminium

Connector for two TAURUS-RAIL rail elements

EA | RAIL END UNITS

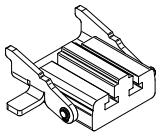
TAURUS-EA-10
RAIL END UNIT, FIXED



Material: stainless steel (AISI 304)

No entry possible
(end unit for a rail section)

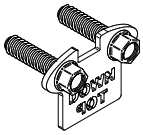
TAURUS-EA-11
RAIL END UNIT, VARIABLE



Material: Stainless steel (AISI 304), aluminium

Entry/exit for TAURUS-GLEIT

TAURUS-EA-21
RAIL ENTRY PLATE, FIXED



Material: stainless steel (AISI 304),

Entry plate for TAURUS-GLEIT-V-21

STEP | ASCENT LADDER

TAURUS-STEP
RAIL SYSTEM WITH INTEGRATED ASCENT AID

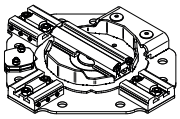
Material: aluminium.
Substructure: Concrete, steel, etc.

The TAURUS-STEP system is connected to the facade/substructure (steel, concrete, etc.) using a fastening bracket, and serves as an ascent aid.

DW | TURNING HUB

TAURUS-DW-10
RAIL CONNECTOR

Material: aluminium, stainless steel (AISI 304)
Turning hub for an additional rail access
(T-application, 2 x 90°).

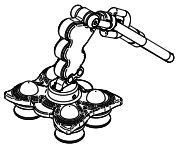


Can be used in combination with the TAURUS-EB-11
as an exit/entry, without having to interrupt the track run.

GLEIT | RAIL SLIDER

TAURUS-GLEIT-V-21
RAIL SLIDER, VERTICAL (EN 353-1)

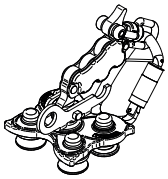
Material: stainless steel (AISI 304)
Inclination range: +/- 3°



Rail slider for vertical use including shock-absorbing element

TAURUS-GLEIT-A-31
RAIL SLIDER, ALLROUND (EN 353-1/EN 795 D)

Material: stainless steel (AISI 304)

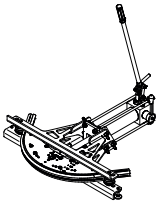


Rail slider with shock-absorbing element for vertical use, and an additional anchorage eye for horizontal use

INSTALLATION ACCESSORY

TAURUS-BEND-10
TAURUS BENDING DEVICE FOR TAURUS-RAIL

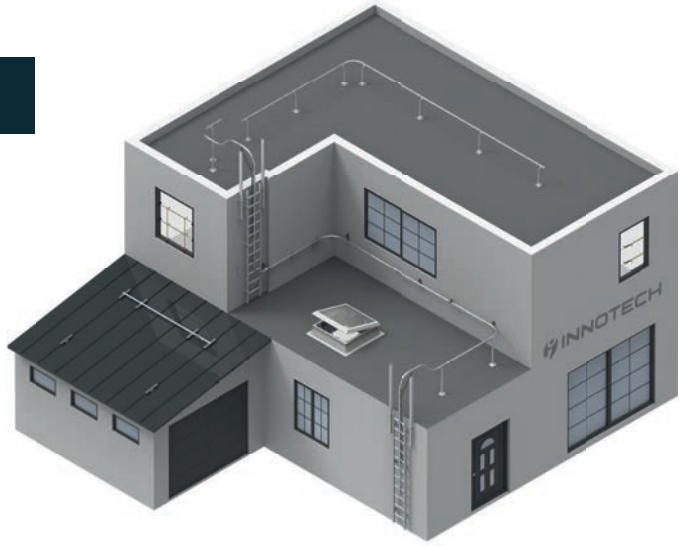
Bending angle: 0° - 85°



Flexible installation of the rails directly on site.
Space saving packaging in a case and easy to transport.

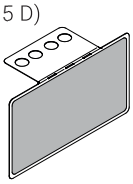
INNOTECH
HOW YOU PROTECT LIVES

Allround rail system



TYP | RATING PLATE

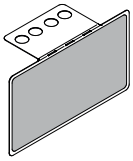
TAURUS-TYP-30
TAURUS RATING PLATE, ALLROUND (EN 353-1/EN 795 D)



Material: Stainless steel (AISI 316), plastic
Dimensions: 160 x 92 mm

For the identification of an Allround rail system (vertical and horizontal)
Various fastening options

TAURUS-TYP-35
TAURUS INFORMATION SIGN (EN 353-1/EN 795 D)

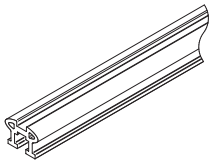


Material: Stainless steel (AISI 316), plastic
Dimensions: 160 x 92 mm

Information sign for an Allround rail system (vertical and horizontal); it is installed at the changeover from vertical to horizontal

RAIL | RAIL

TAURUS-RAIL-10
ALUMINIUM RAIL, STRAIGHT RUN

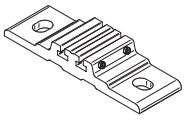


Material: aluminium
L = 3000 mm/6000 mm

Rail element with straight run

BEF | RAIL FASTENERS

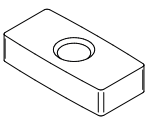
TAURUS-BEF-10
RAIL FASTENER FOR CONCRETE



Material: aluminium
Substructure: Concrete, facade, steel construction

for fastening TAURUS-RAIL to concrete, facade, and steel construction

TAURUS-BEF-12
RAIL FASTENER, STEEL CONSTRUCTION, SLIDING NUT M10

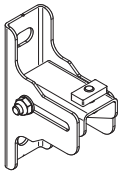


Material: stainless steel (AISI 304)
Substructure: steel construction

for fastening TAURUS-RAIL to steel construction

RAIL FASTENER

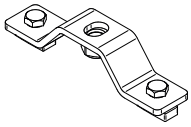
TAURUS-BEF-20
RAIL FASTENER FOR FACADE



Substructure: Concrete, facade
Hole spacing: 120 mm
Fastening for concrete: by means of 2x adhesive anchors
Fastening depth for concrete: min. 100 mm
Material: stainless steel (AISI 304)

for fastening TAURUS-RAIL to concrete and facade

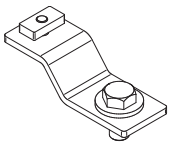
TAURUS-BEF-21
RAIL FASTENER



Material: stainless steel (AISI 304)
Substructure: Concrete, steel construction
Fastening depth for concrete: min. 125 mm

for fastening TAURUS-RAIL to concrete and steel construction

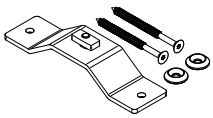
TAURUS-BEF-30
RAIL FASTENER, FASTENING ANGLE



Substructure: AIO-STA post
Material: stainless steel (AISI 304)

for attaching TAURUS-RAIL to an AIO-STA post

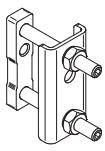
TAURUS-BEF-41
RAIL FASTENER FOR WOOD



Material: stainless steel (AISI 304)
Substructure: Wood
(min. 16/16 cm or as per installation instructions)

for attaching TAURUS-RAIL to wood

TAURUS-BEF-90
RAIL FASTENER FOR LADDER

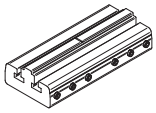


Material: stainless steel (AISI 304)
Substructure: ladder rung. Rung dimension: max. Ø 45 mm

for attaching TAURUS-RAIL to ladders

VB | RAIL CONNECTOR

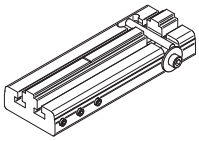
TAURUS-VB-10
RAIL CONNECTOR



Material: aluminium

Connector for two TAURUS-RAIL rail elements

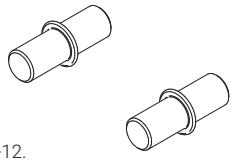
TAURUS-VB-11
RAIL CONNECTOR



Material: aluminium

Connector for two TAURUS-RAIL rail elements,
with expansion compensation

TAURUS-VB-12
RAIL CONNECTION

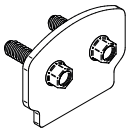


Material: galvanised steel

for the alignment of two TAURUS-RAIL rail elements
must be used only in combination with TAURUS BEF-12.

EA | RAIL END UNITS

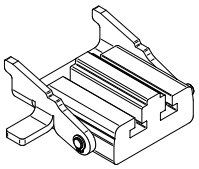
TAURUS-EA-10
RAIL END UNIT, FIXED



Material: stainless steel (AISI 304)

no entry possible (end unit for a rail section)

TAURUS-EA-11
RAIL END UNIT, VARIABLE

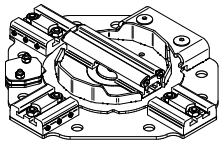


Material: Stainless steel (AISI 304), aluminium

Entry/exit for TAURUS-GLEIT

DW | TURNING HUB

TAURUS-DW-10
RAIL CONNECTOR

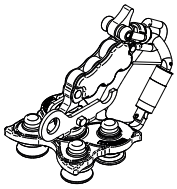


Material: aluminium, stainless steel (AISI 304)
Turning hub for an additional rail access
(T-application, 2 x 90°).

Can be used in combination with
the TAURUS-EB-11 as an exit/entry, without having
to interrupt the track run.

GLEIT | RAIL SLIDER

TAURUS-GLEIT-A-31
RAIL SLIDER, ALLROUND (EN 353-1/EN 795 D)

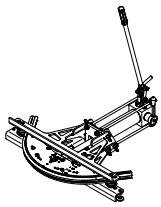


Material: stainless steel (AISI 304)

Rail slider with shock-absorbing element for vertical use,
and an additional anchorage eye for horizontal use

INSTALLATION ACCESSORY

TAURUS-BEND-10
TAURUS BENDING DEVICE FOR TAURUS-RAIL



Bending angle: 0° - 85°

Flexible installation of the rails directly on site.
Space saving packaging in a case and easy to transport.

INNOTECH
HOW YOU PROTECT LIVES

PERFECT INTEGRATION
THROUGH INDIVIDUAL COLOUR SELEC-

TAURUS

Rail system

- For indoors & outdoors.
- Can be used on all substructures.
- Individual colour selection means perfect integration with the architecture.
- Various curves and torsions possible.
- Maximum freedom of movement along the entire length of rail.

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MORE INFORMATION.
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Hamburg, Germany

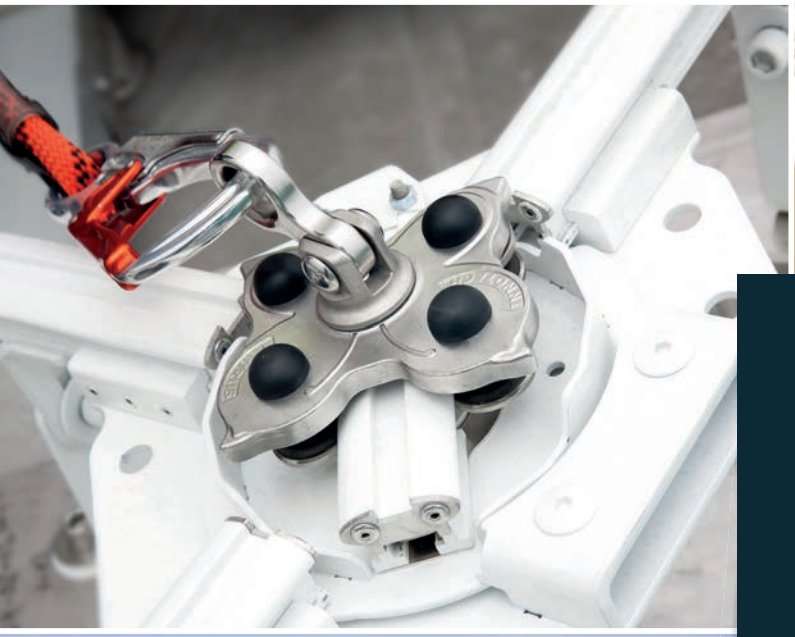
490 METRE RUN OF TAURUS RAIL, PLUS AROUND 400 FASTENERS

– an individualised high-tech fall protection system as a special solution from INNOTECH.

The TAURUS rail system guarantees the safety of all people who have to climb to perform cleaning and maintenance work on the roof of the Elbphilharmonie building.

The complex waveform of the architect's freely drawn lines required the development of a special system, in order to fulfil the most demanding safety requirements. Specially curved rails were therefore planned, and these cling to the multi-curved roof form like a second skin. A special rail connector was also developed; this accommodates the greater heat expansion of the aluminium, and protects the extensive system against possible damage from solar radiation.

INDIVIDUAL RANGE OF COLOURS AND MAXIMUM FREEDOM OF MOVEMENT



A specially developed slider “floats” along the system and ensures completely unhindered movement, even on inclined surfaces of this type.
The people working on the roof do not have to inconveniently attach or detach themselves from the system, and they are able to move completely freely along the entire edge of the roof.