



Guardrail system  
**BARRIER**

**Fleece**

Guardrail system with green roof as superimposed load



+43 7619 22 1 22 - 0  
+49 271 23 41 94 - 0  
+43 564 16 9 042 - 0

office@innotech.at  
www.innotech.at

Laizing 10  
A 4656 Kirchham

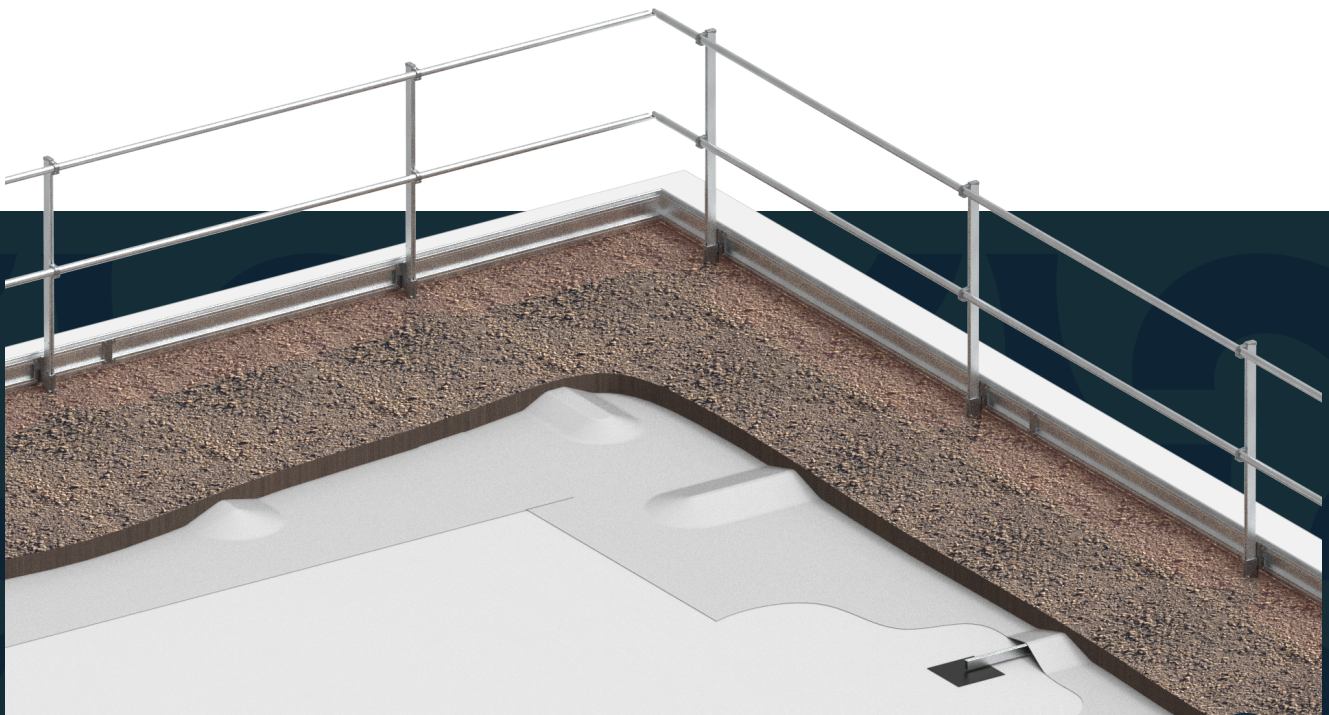
## BARRIER-FLEECE

Guardrail system with green roof as superimposed load

The BARRIER FLEECE guardrail system is used wherever the fall edges of flat roofs up to 10° inclination must be protected. It creates a barrier to the fall edge, and so all persons located on the roof can move about in safety. This system is suitable only in combination with a green roof structure or a gravel fill, and was specially developed for this application area. Thanks to the green roof or gravel fill acting as a superimposed load, there is no need for additional weights on the roof, and so roof penetrations are a thing of the past.

### BENEFITS

- Efficient installation and few roof penetrations, thanks to post separations of 2,5 m.
- Optimum adaptability to the structure of the building, thanks to the surface coating options for the guardrail.
- Optimum use of the green roof's intrinsic weight, so there is no need for additional weights on the roof or for roof penetrations.
- Prevention of stumbling events, thanks to the boom's location beneath the roof system.



New economical variant with the BARRIER-V14 foot and an additional post with height adjustment up to 8 cm, and the option to incline the guardrail by 75°.

# Technical product description

The guardrail system consisting of aluminium and stainless steel impresses because of its weather resistance and robustness. The guardrail, together with the various individual components, such as the specially developed foot units, posts, booms, and connectors, combine to create a harmonised system. Because installation takes place directly in combination with the green roof and the gravel fill, the roof is not subjected to an additional load.



## TECHNICAL BENEFITS

### Minimal roof loading

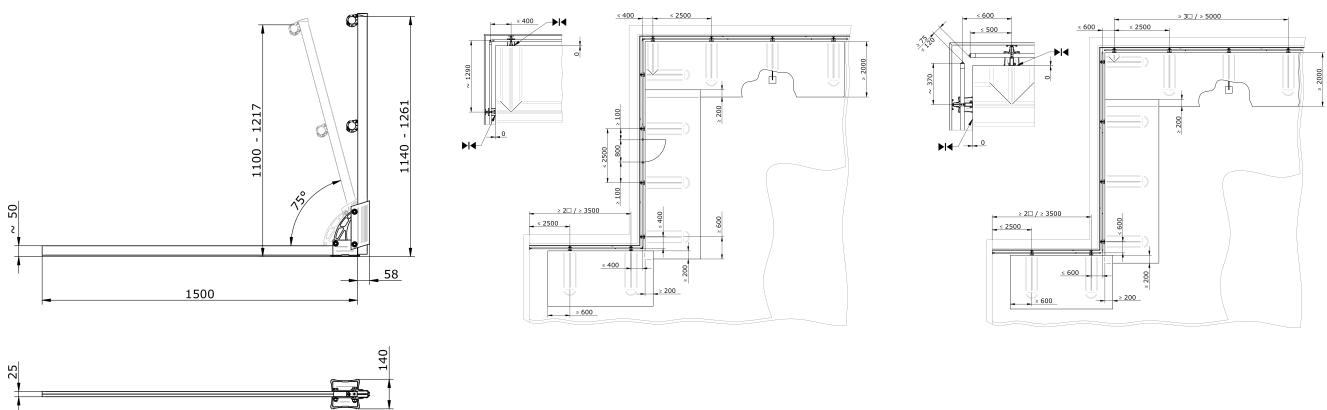
The guardrail system is installed in combination with the green roof structure or a gravel fill. The weight of the existing roof thus provides the necessary superimposed load for the system, and the need for an additional weight is completely avoided.

### Height adjustment and inclination option

Depending on the foot variant selected, a height adjustment of up to 12,5 cm is possible. In addition, the guardrail can be inclined by 90° or 75°. For the optimum visual result, there is also an option to fold up the guardrail and its respective foot.

### Secured access

By fitting the optional BARRIER-T30 door set, optimally secured access and descent to or from the flat roof are made possible.



## State of the art certification:

EN 13374:2019

DIN EN 14122-3:2016

DIN 14094-2:2017

## Components

### BARRIER-Z11

Rating plate BARRIER-Z11 for guardrail system

**Material:** Aluminium composite, plastic  
for marking a BARRIER system



### BARRIER-S12-1500

Standard boom, superimposed load, BARRIER-S22-15

**Length:** 1500 mm

**Material:** aluminium

Standard boom for System VARIO-load-bearing  
Customised lengths on request!



### BARRIER-V12

Vario foot unit BARRIER-V12

**Material:** aluminium, stainless steel (AISI 304)  
VARIO foot unit without boom/post, for creation of a  
load-bearing collective side protection



### BARRIER-V14

Vario foot unit BARRIER-V14

**Material:**  
VARIO foot unit without boom/post, for creation of a  
load-bearing collective

New



### BARRIER-V92

Vario corner tie BARRIER-V92

**Material:** aluminium, stainless steel V2A (AISI 304)  
To connect two booms



### BARRIER-F20

Toe board BARRIER-F20

**Height x width x length:** 170 x 20 x 3000 mm

**Material:** aluminium

For use when no parapet higher than 150mm is  
available!



### BARRIER-F22

Toe board bracket BARRIER-F22

**Material:** aluminium, stainless steel (AISI 304)  
for fastening the BARRIER-F20 toe board to the VARIO  
BARRIER-V12 foot unit



### BARRIER-F23

Toe board connection set BARRIER-F23

**Packing unit:** 1 items

**Material:** aluminium, stainless steel (AISI 304)  
for connecting two BARRIER-F20 toe boards



### BARRIER-F25

Toe board bracket BARRIER-F25

**Material:** aluminium, stainless steel (AISI 304)  
for fastening the BARRIER-F20 toe board to the VARIO  
BARRIER-V14 foot unit



### BARRIER-S20-1140

Standard post BARRIER-S20-1140

**Length:** 1140 mm

**Material:** aluminium, aluminium-zinc, stainless steel  
Standard post for System VARIO including pipe retainer.



### BARRIER-S24-1140

Foldable post BARRIER-S24-1140

**Length:** 1140 mm

**Material:** aluminium, aluminium-zinc, stainless steel  
Foldable post including pipe retainer.

New



### BARRIER-S25-1150

Curved post BARRIER-S25-1150

**Length:** 1150 mm

**Angle:** 75°

**Material:** aluminium, aluminium-zin  
urved post including tube holder for BARRIER-V14.

New



# Components

## BARRIER-T30

Door set BARRIER-T30

**Material:** aluminium, stainless steel (AISI 304)  
Opening 800 mm, anchorage direction fixed, not selectable (right hand door)  
For load-bearing implementation, 4 x BARRIER-V20 weights required for each door side!



## BARRIER-R11

Aluminium pipe BARRIER-R11

**Diameter x wall thickness x length:** 36 x 2.5 x 3000 mm  
**Material:** aluminium



## BARRIER-R21

Linear tie BARRIER-R21

**Material:** aluminium, stainless steel (AISI 304)  
for connecting two BARRIER-R11 pipes



## BARRIER-R31

Corner tie BARRIER-R31

**Material:** aluminium, stainless steel (AISI 304)  
Create a corner with two pipes BARRIER-R11  
Angle free adjustable!



## BARRIER-R41

Wall tie BARRIER-R41

**Substructure:** concrete or steel construction  
**Material:** aluminium, stainless steel (AISI 304)  
Angle free adjustable!



## BARRIER-R51

End seal BARRIER-R51

**Material:** aluminium, stainless steel (AISI 304)  
end seal of two rail pipes BARRIER-R11  
Projection of the rail pipe max. 500 mm!



## BARRIER-R70

Pipe bracket BARRIER-R70

**Material:** zinc-aluminium, stainless steel  
pipe retainer fo fix the pipes BARRIER-R11



## BARRIER-R91

End cap BARRIER-R91

**Diameter x thickness:** 36 x 2 mm  
**Packaging unit:** 2 pieces  
**Material:** plastic  
end cap for rail pipe BARRIER-R11  
Projection of the rail pipe max. 350 mm!



## BARRIER-Z22

End cap BARRIER-Z22

**Material:** zinc-aluminium  
End cap to cover a standard post





Head office  
**INNOTECH® Arbeitsschutz GmbH**

Laizing 10  
A 4656 Kirchham  
T +43 7619 22 1 22 - 0  
[office@innotech.at](mailto:office@innotech.at)  
[www.innotech.at](http://www.innotech.at)

Branch Office Switzerland  
**INNOTECH® Arbeitsschutz GmbH**

Seestraße 14b  
CH 5432 Neuenhof  
T +41 56 41 69 040  
[office@innotechag.ch](mailto:office@innotechag.ch)  
[www.innotechag.ch](http://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](mailto:office@innotech.de)  
[www.innotech.de](http://www.innotech.de)