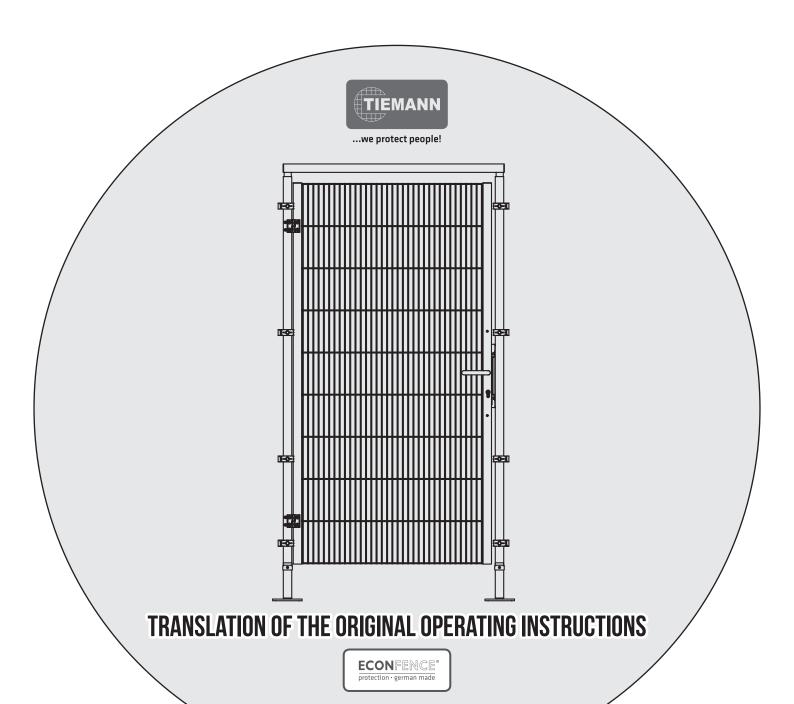


These operating instructions contain important product information and safety instructions. This information must be taken into consideration prior to carrying out any activities relating to the product and observed throughout.

These operating instructions must be made available to all parties and stored in a safe place.



BASIC LINE

1-LEAF SWING DOOR VARIANT BT01

System heights 2000 | 2200 mm Version: 01/2018



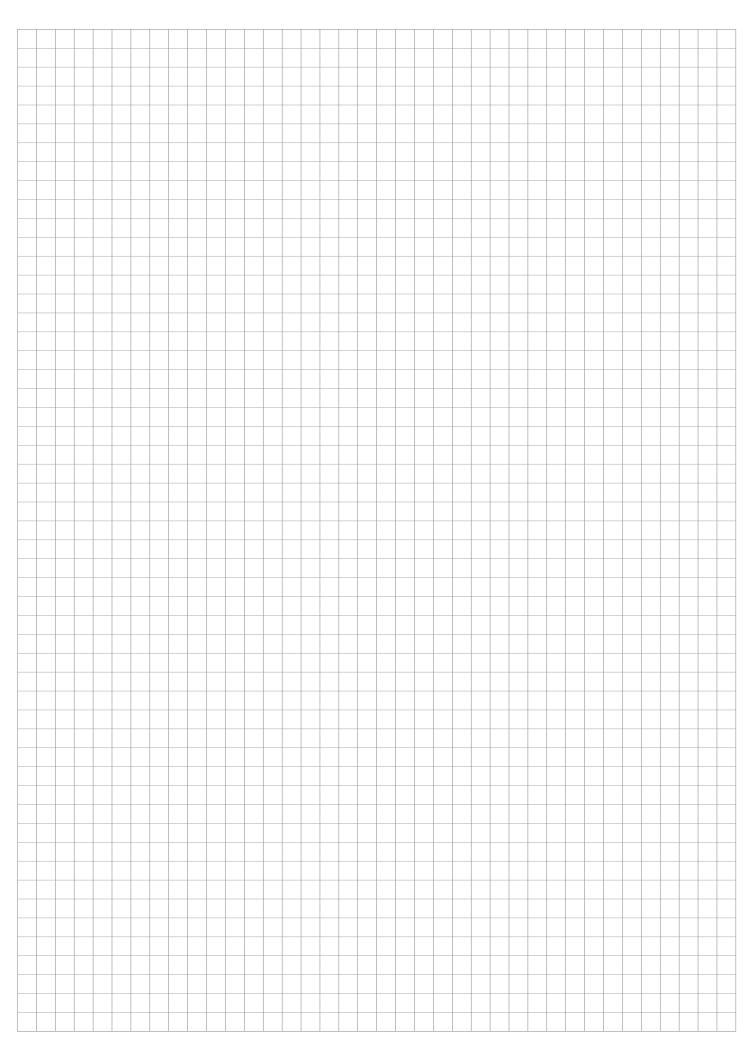


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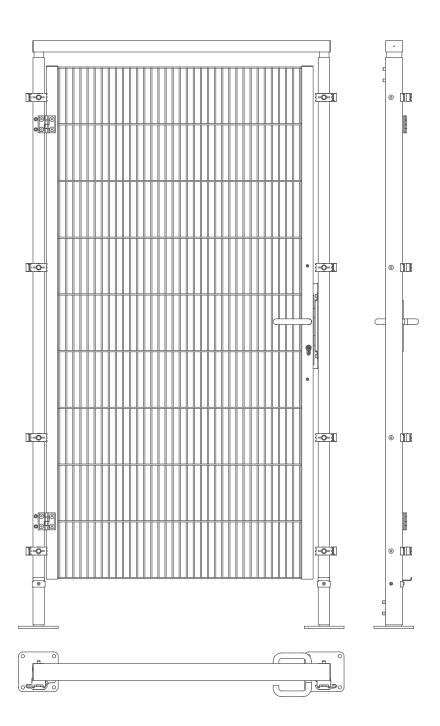
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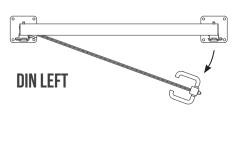
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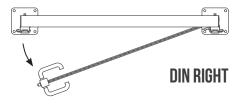
1. Product description and technical data

The 1-leaf swing doors of the variant BT01 are available in the following designs as standard:









1 BASIC LINE	Widths (mm)	Opening widths (mm)	Heights (mm)	Base plate (mm)	Weights (kg)
1-leaf swing door	1148	860	2053	140x140	31.02
Door variant BT01 DIN left / right	1148	860	2253	140x140	50.64

2. Intended use and limitations

The ECONFENCE® BASIC LINE protective fencing system is designed to establish a fixed, safe distance to protect people from coming into contact with hazardous machinery and facilities in production and warehouse logistics.

The fencing elements are suitable for use as fixed guards and the 1-leaf swing doors of the variant BT01 are designed for use as movable guards (in the sense of DIN EN ISO 14120) in combination with locking devices with door handles (in the sense of DIN EN ISO 14119)

according to DIN EN ISO 14120.

The locking devices themselves and their fastening accessories are not part of the scope of delivery. The system manufacturer is responsible for the expert layout and installation of suitable locking devices. This expertise also includes an understanding and observance of the

relevant legislation governing safety technology, including e.g. DIN EN ISO 13849. Application of the CE mark provided (type plate) is prohibited until the doors have been completed by the necessary locking devices.

Only operate the guard when it is in perfect technical condition! Taking health and safety at work into account, eliminate any problems which can impair the safety of employees and operational safety without delay!

Any other use shall require the written approval of the manufacturer. If machines or systems are not surrounded entirely by the protective fencing system, the open areas (such as material transfer points and personnel access points) must be secured by the plant engineer in accordance with the risk assessment and the relevant legislation.

Intended use also includes taking the operating instructions into consideration and observing the cleaning, maintenance and inspection conditions. The guard has been designed for industrial machine and system construction and may only be mounted, operated, maintained and repaired by trained, instructed specialists.

The owner / operator must check whether the currently valid standards and regulations require the protective fencing to have a protective earth connection.

The protective earth connection may only be carried out by a qualified electrician.

When incorporating the protective fencing systems into the overall security concept of the machine or system, the following standards must be taken into consideration:

DIN EN ISO 12100 Safety of machinery – General principles for design –

Risk assessment and risk reduction

DIN EN ISO 11161 Safety of machinery – Integrated manufacturing systems –

Basic requirements

DIN EN ISO 13857 Safety of machinery - Safety distances to prevent hazard zones being reached by

upper and lower limbs

DIN EN 349 Safety of machinery – Minimum gaps to avoid crushing parts

of the human body

DIN EN ISO 14120 Safety of machinery – Guards – General requirements for the design and

construction of fixed and movable guards

DIN EN ISO 14119 Safety of machinery – Interlocking devices associated with

guards – Principles for design and selection

DIN EN ISO 13849-1 Safety of machinery – Safety-related parts of control systems –

Part 1: General principles for design

Depending on the machine / system constellation, other standards which are not listed here must also be taken into consideration.

The system is not intended for outdoor use. Any kind of manipulation is prohibited.

The protective fencing may only be set up in an environment with temperatures from 10°C to max. 50°C (not corrosive

environment).

The machine / system must be switched off before anyone enters the hazardous area (electrical, pneumatic) and secured against unauthorised restarting by means of a lockout/tagout lock. The key must always be carried on your person.













im Sinne der EG Maschinenrichtlinie 2006/42/EG, Anhang II A

EC DECLARATION OF CONFORMITY

according to EC Machinery Directive 2006/42/EC, Annex IS

Hersteller | Manufacturer

Tiemann Schutz-Systeme GmbH Lübbecker Str. 16 32257 Bünde / Germany



Hiermit erklären wir, dass das Produkt

Produktbezeichnung: Bewegliche Trennende Schutzeinrichtung

Typ: ECONFENCE® BASIC LINE BT01

Baujahr bzw. Seriennummer: b 05/2016

den einschlägigen Bestimmung in der Richtlinie 2006/42/EG entspricht.

Es wurden folgende harmonis e. te Normen angewandt:

• DIN EN ISO 14120:2016-05

We hereby declare that the product:

Product designation: Movable separating guard

Type: ECONFENCE® BASIC LINE BT01

Year of build or serial number: as of 05/2016

meets the relevant provisions of directive 2006/42/EC. The following harmonised standards have been applied:

DIN EN ISO 14120:2016-05

Ort Datum Unterschrift* Geschäftsführer
City Date Signature* Managing Director

Curterzeichner ist verantwortlich für die Zusammenstellung der technischen Unterlagen und gleichzeitig der verantwortliche Herausner Ler technischen Dokumentation.

e-signatory is responsible for the composition of the technical documents and at the same time the responsible publisher of the technical documentation.

6

4. Safety instructions and explanation of symbols

The safety symbols are to be noted and observed in each of the relevant sections of these operating instructions.

Symbol	Explanation
A	Safety instruction (Failure to observe will result in injury or death)
į	Functional instruction (Failure to observe will result in malfunctions or material damage)
	Hazardous area
	Non-hazardous area
€ ⊕	Magnified/detailed view
	Installation height
	Essential tools (reference to page 9)
	Use ear protectors
	Use protective eyewear

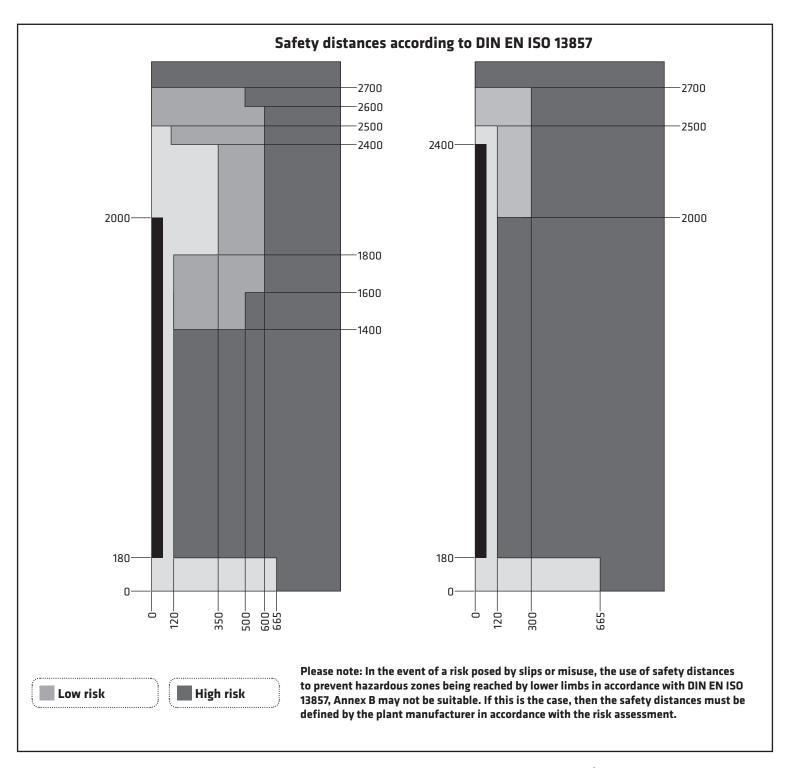
5. Assembly and installation



At least two people are required for assembly and installation. Wear personal protective equipment or fastened working clothes, wear safety footwear and head protection. In addition, goggles with side protectors must be worn during drilling in concrete. If dusts occur, filter mask of at least FFP 1 must be worn.

Only specialist personnel are authorised to carry out assembly and installation.

Prior to commencing the installation work, the machine or system being enclosed must be switched off or else made safe. The machine / system must be switched off before installation and secured against unauthorised restarting by means of a lock-out/tagout lock. The key must always be carried on your person. Establish / check the required safety distances from the hazardous areas of the machine/system in accordance with DIN EN ISO 13857:





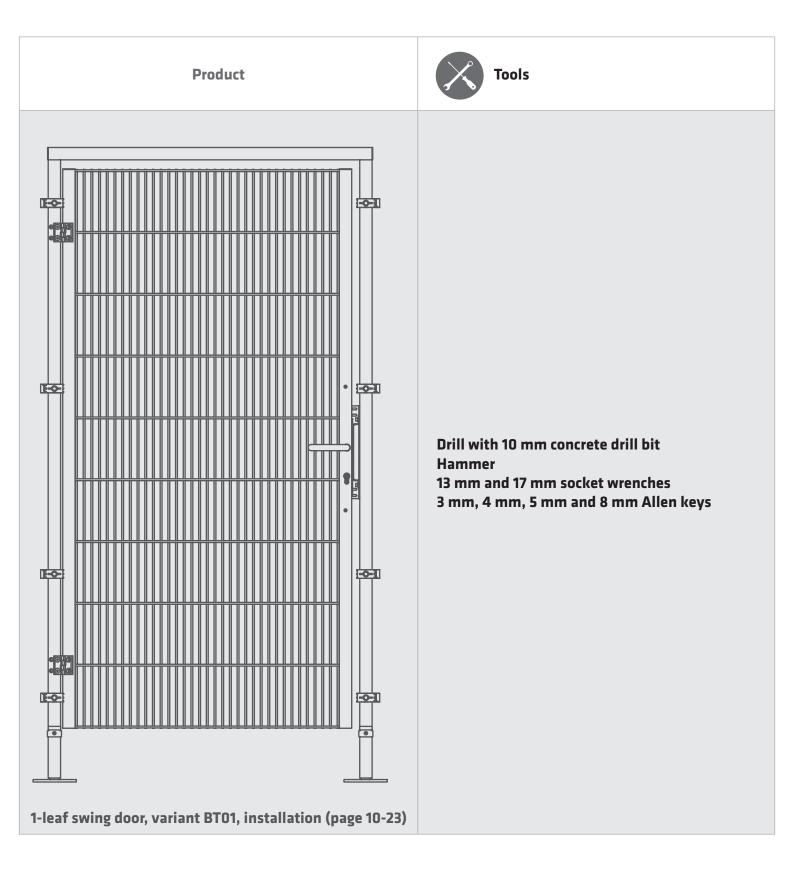
Safety distances only apply with the use of ECONFENCE® mesh elements with a mesh size of 19|190 mm.

Information on dimensions and weight specifications of the system components can be found in Section 1. Technical data, page 4. The system is only intended to be used on the following surface (see page 10).

Only the fastening elements provided are to be used.

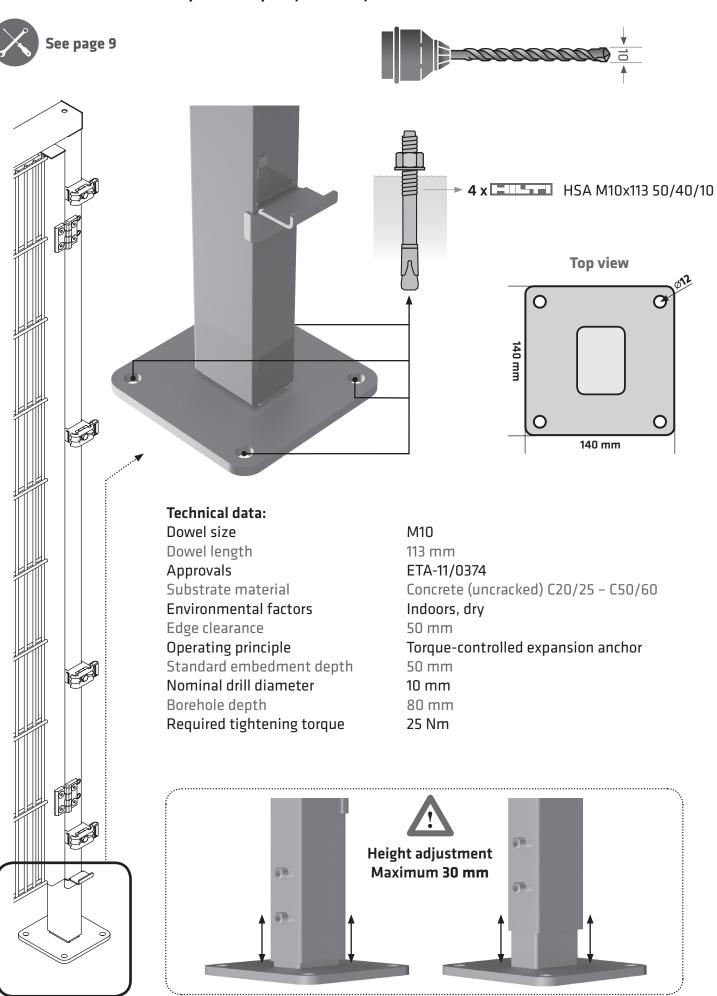
When installing the electrical equipment (such as cables, switches, control cabinet etc.) for the protective fencing system, the Requirements of DIN EN 60204-1 must be observed.

Should you have any further questions, please contact our Customer Service team on +49 (0) 5223 791995-0



5.2. Fastening to the substrate

Substrate material: Concrete (uncracked) C20/25 to C50/60

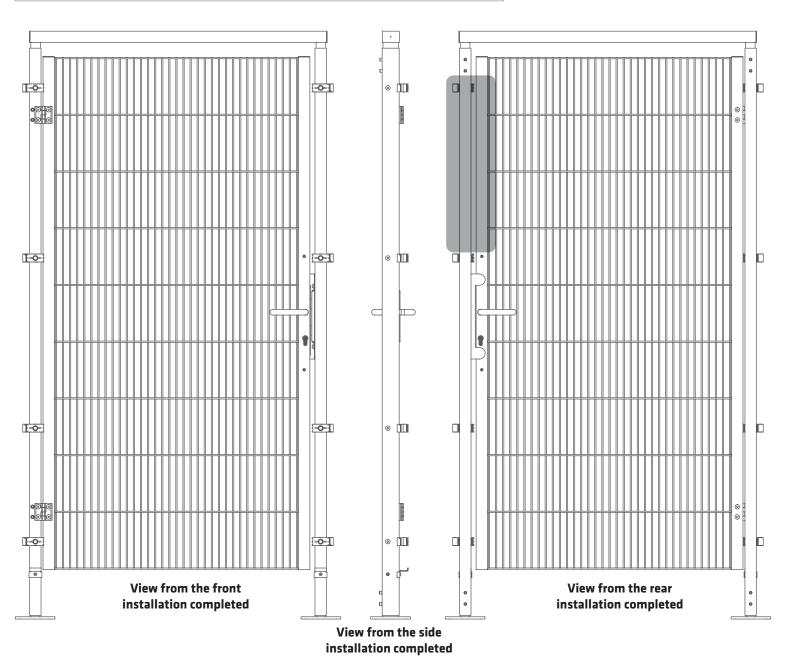


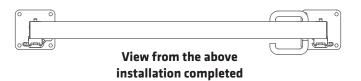
5.3. Interface for fixing locking devices 1-leaf swing door, variant BT01, as a movable guard in connection with an on-site locking device

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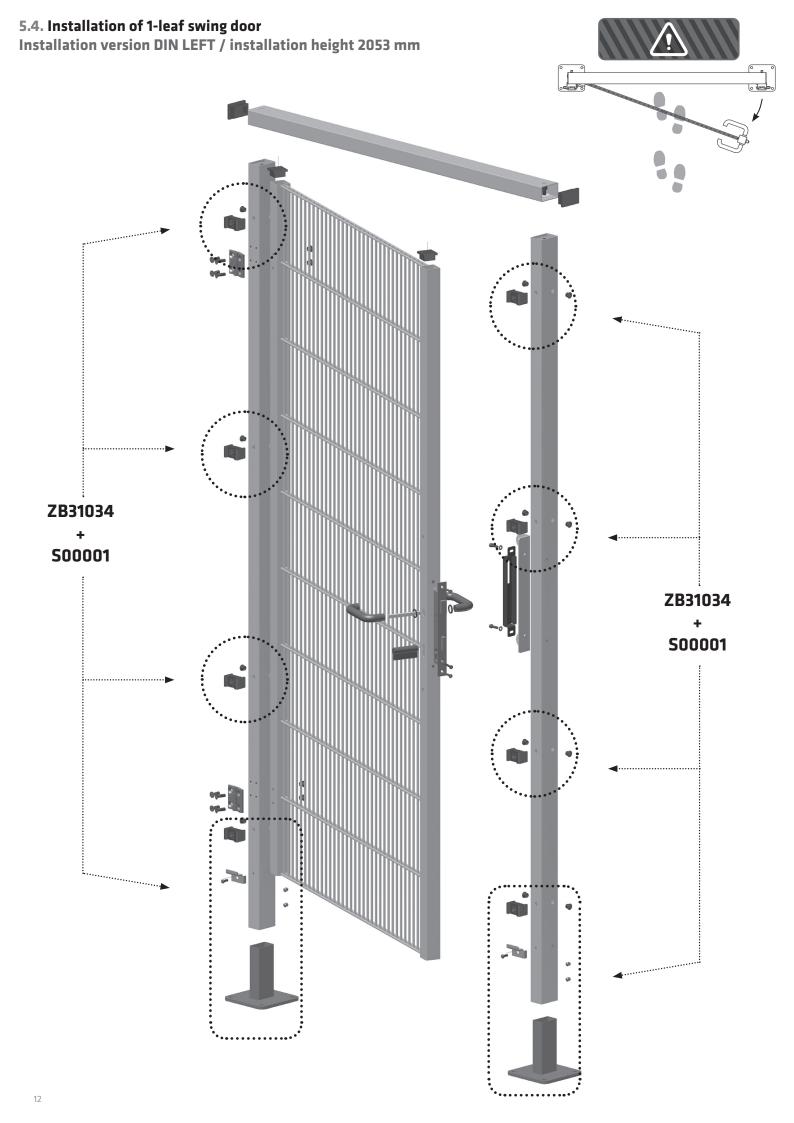
For the locking device (safety switch) to be fixed in place, threaded rivets can be set on the door leaf and post in the upper area of the inner side of the door (see illustration below, area marked grey).

3 Should you have any further questions, please contact us on +49 (0) 5223 791995-0.





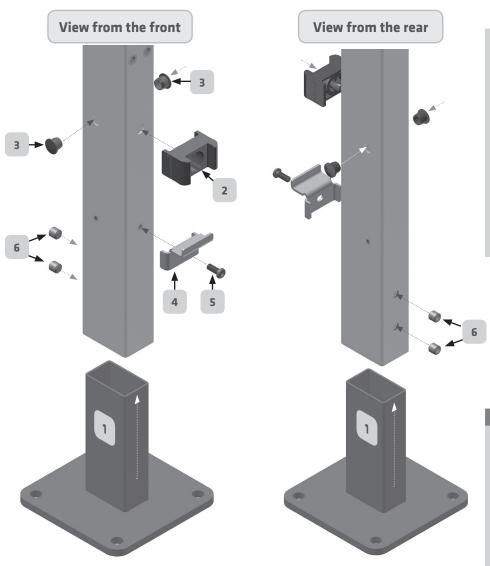


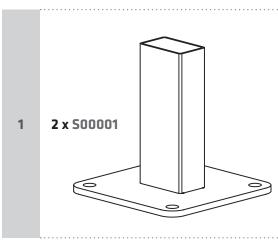


View from the front

Installation version DIN LEFT / installation height 2053 mm

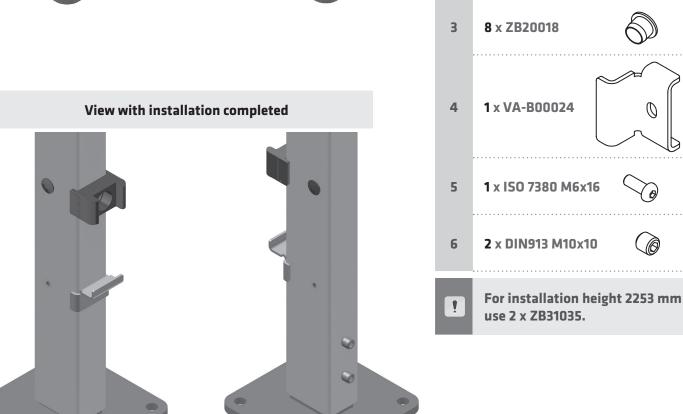




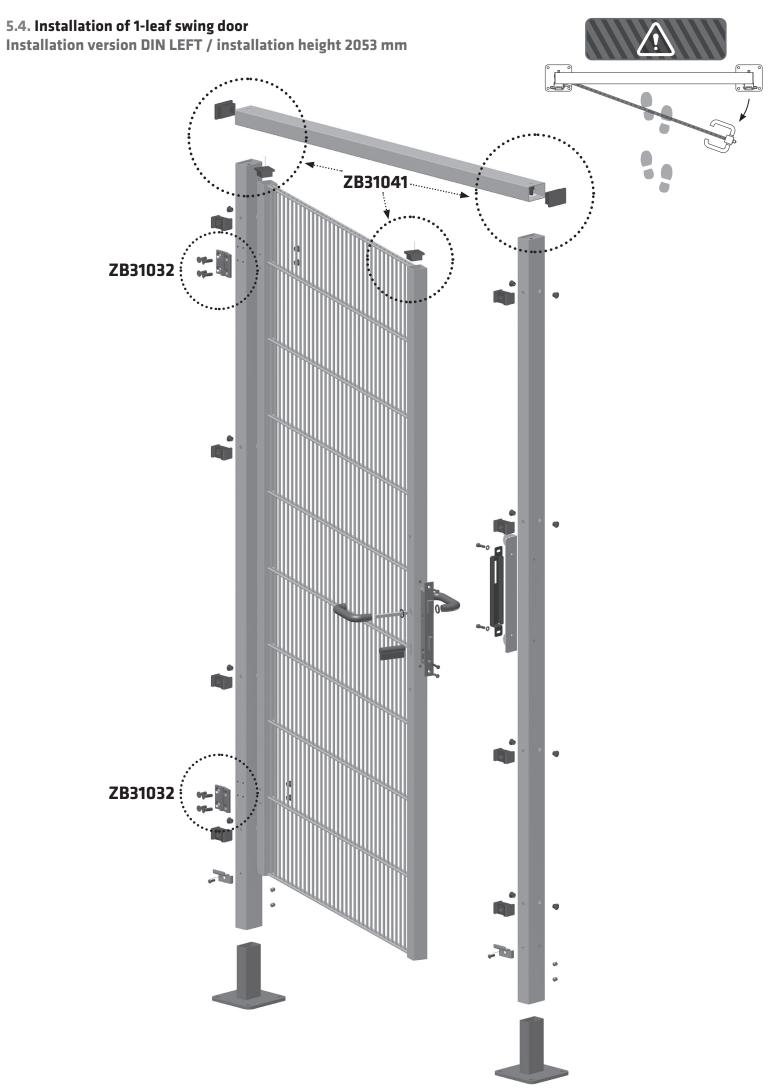


2 x ZB31034

4 x ZB21008

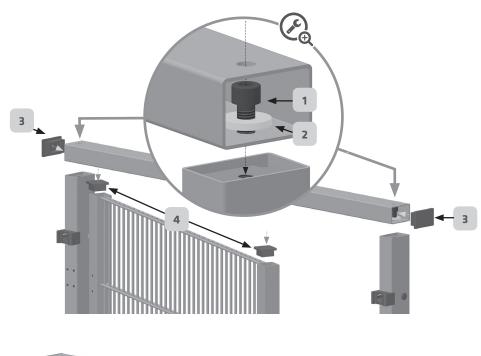


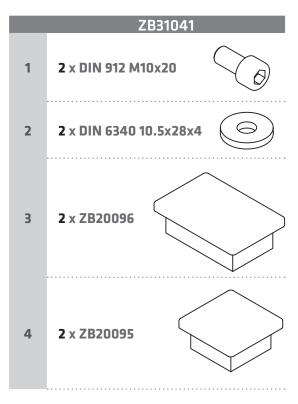
View from the rear



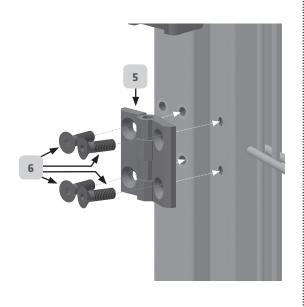
Installation version DIN LEFT / installation height 2053 mm











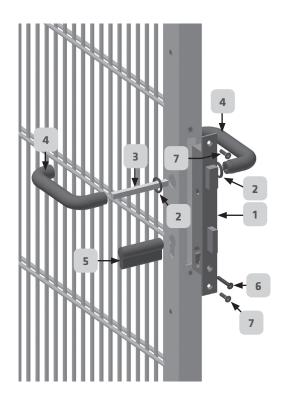


completed

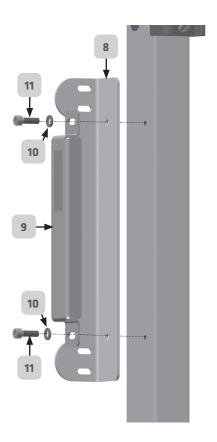
ZB31032		
5	2 x ZB10012	
6	8 x DIN 7991 M8-25	

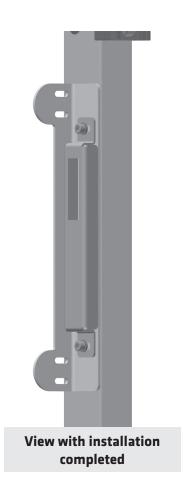
5.4. Installation of 1-leaf swing door Installation version DIN LEFT / installation height 2053 mm ZB31042

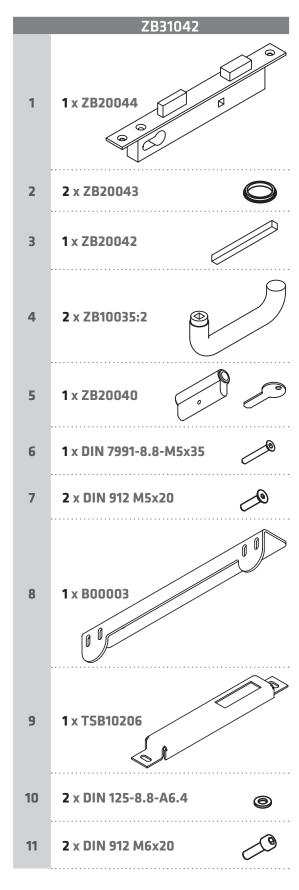


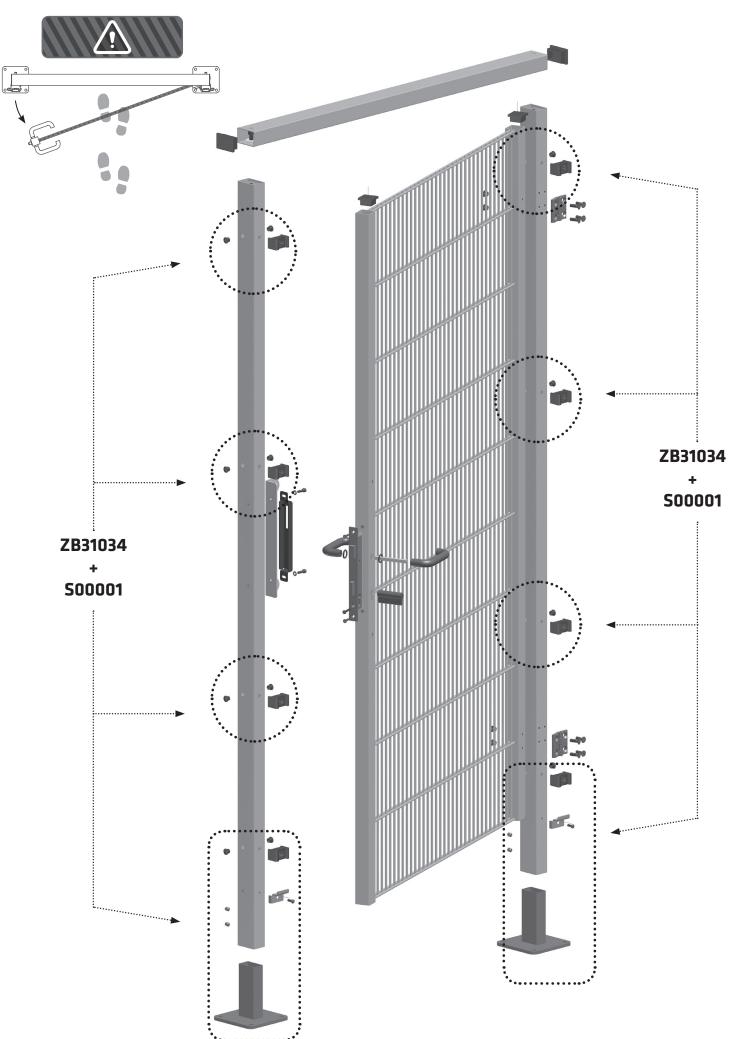






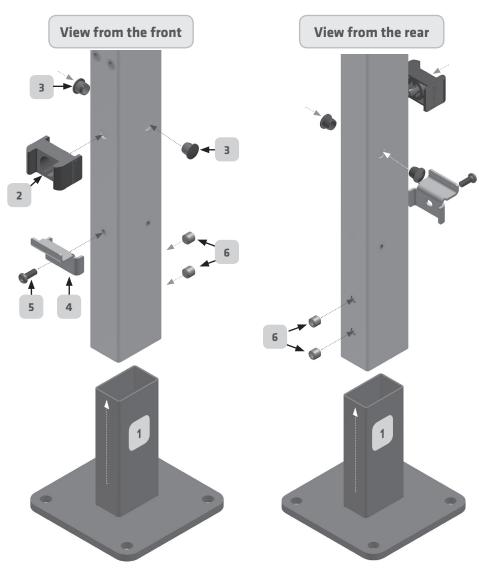


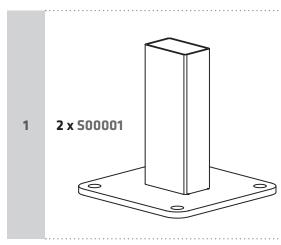


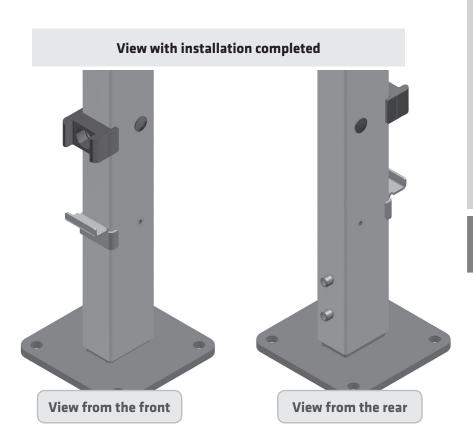


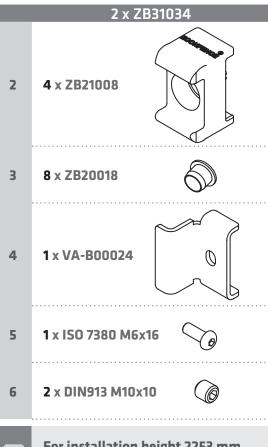
Installation version DIN RIGHT / installation height 2053 mm

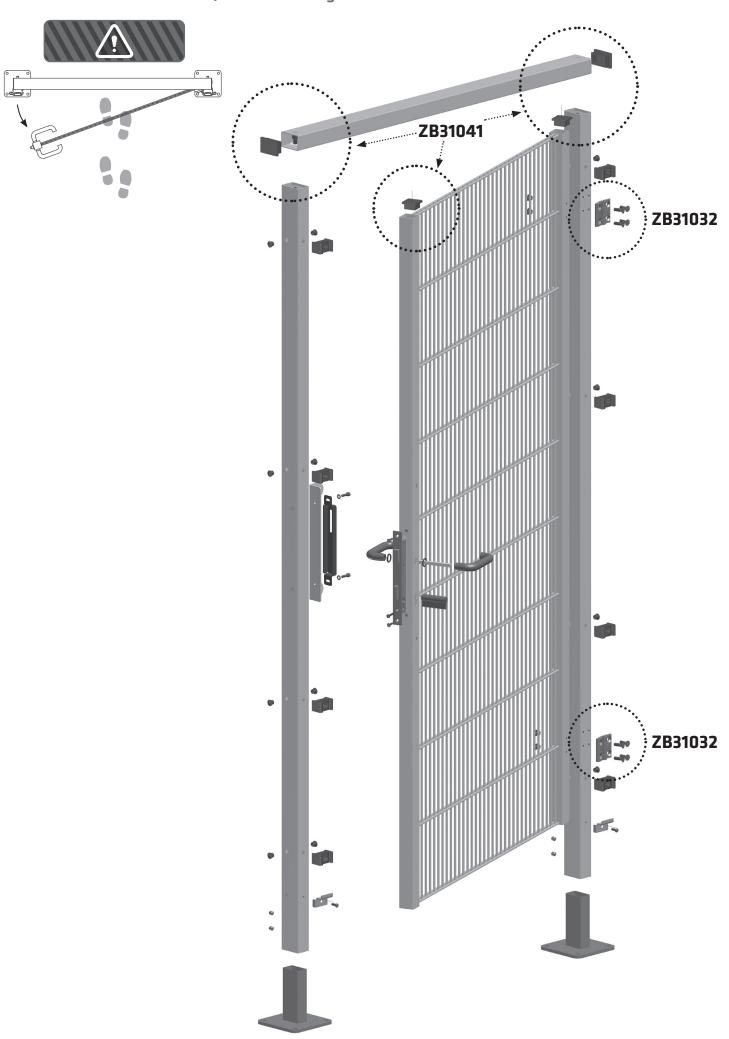






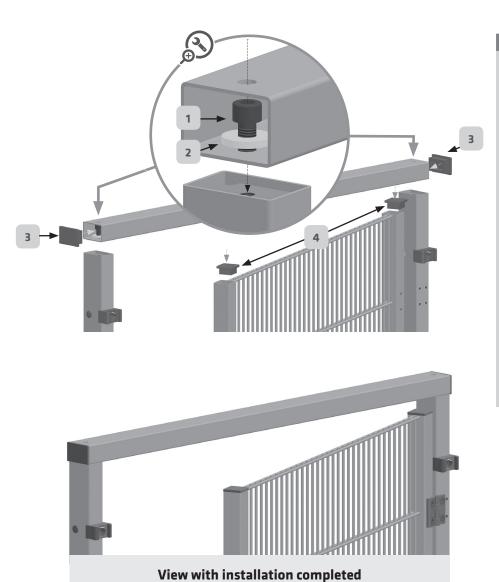


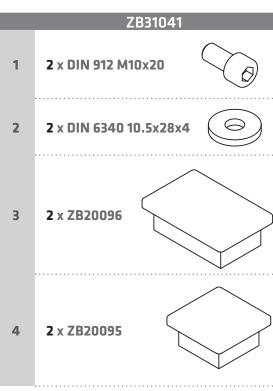


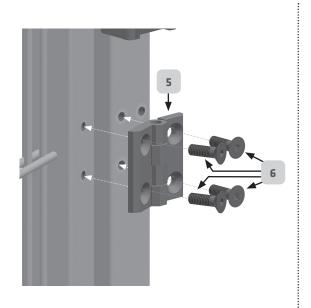


Installation version DIN RIGHT / installation height 2053 mm

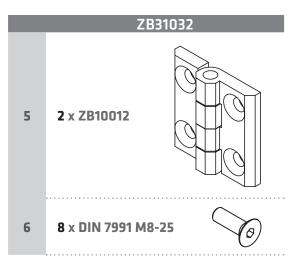


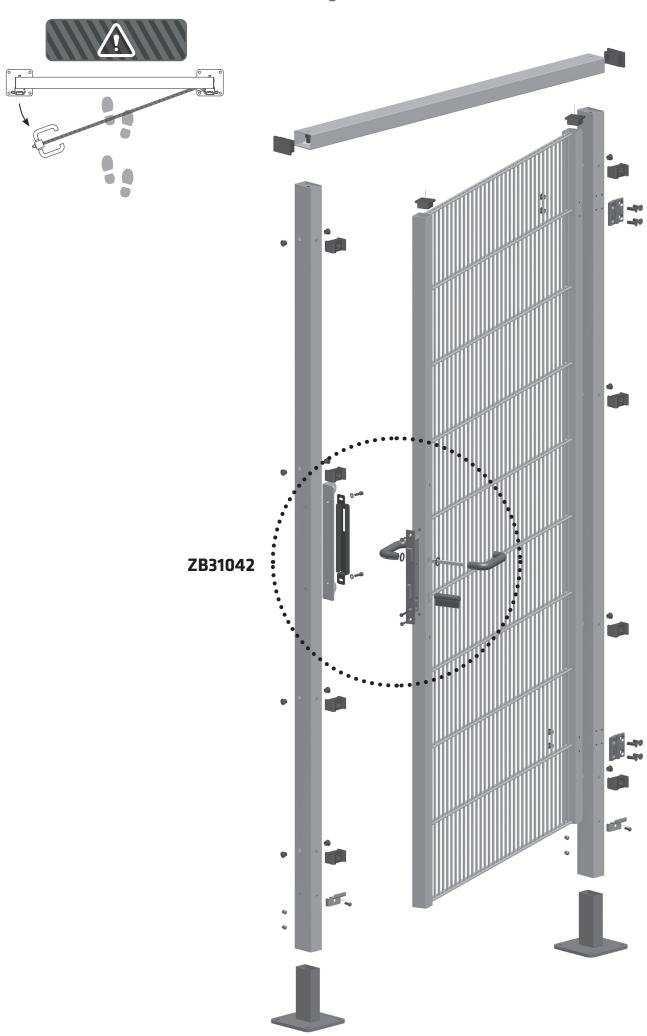




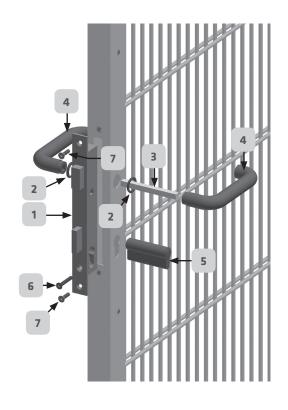




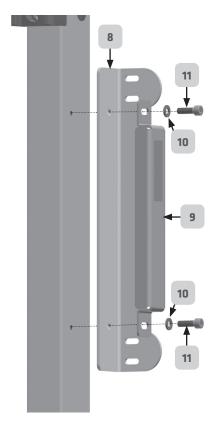


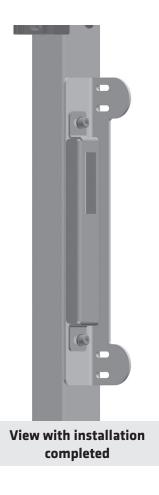


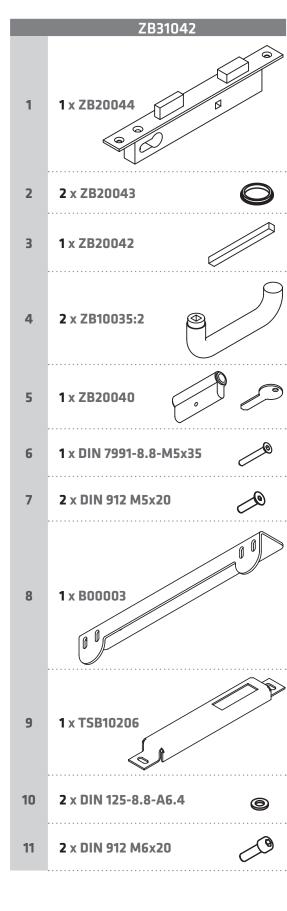






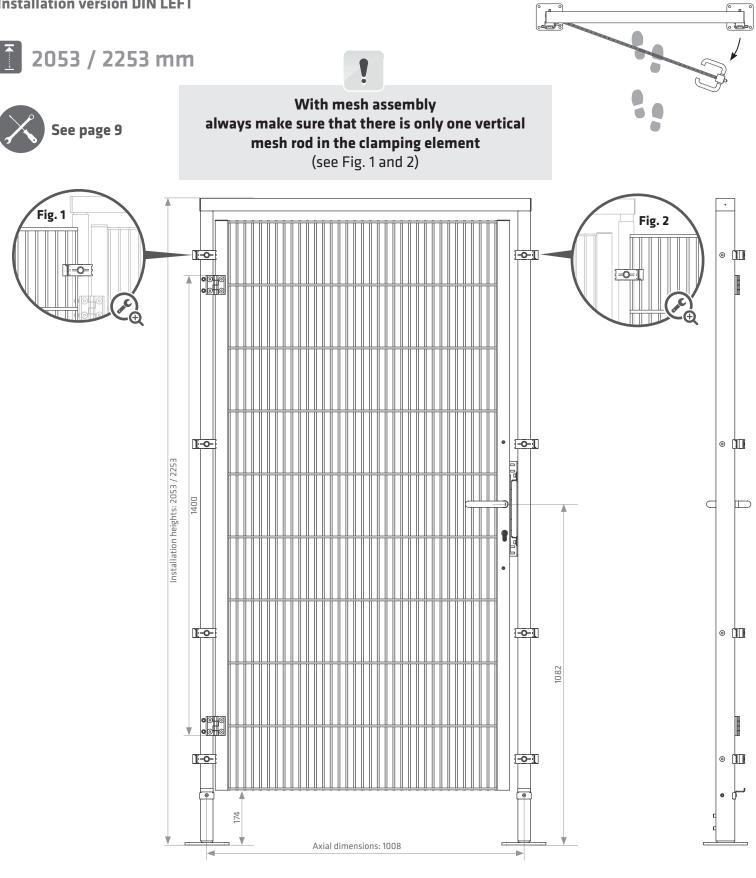






5.5. Installation on the protective mesh

Installation version DIN LEFT

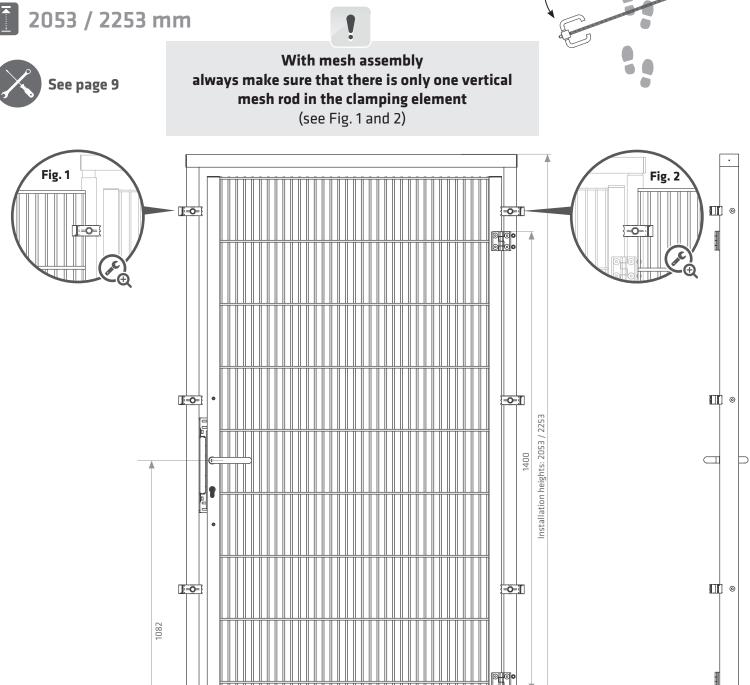




5.5. Installation on the protective mesh Installation version DIN RIGHT 2053 / 2253 mm

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Axial dimension: 1008

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174

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6. Maintenance

The ECONFENCE® protective fencing system is essentially maintenance-free.



Annual checks are to be carried out by specialist personnel to ensure its protective function remains intact. Missing and/or damaged parts must be completed or replaced immediately, taking health and safety at work into account. Only original spare parts may be used.

7. Disassembly and disposal

At least two people are required for disassembly work and these must be specialist personnel.



The machine / system must be switched off before disassembly and secured against unauthorised restarting by means of a lockout/tagout lock.

The key must always be carried on your person.

Any electrical equipment attached to the protective fencing system must be disconnected or else made safe.

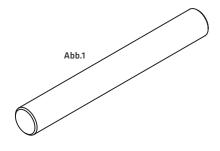
The system must be disposed of in line with local regulations.

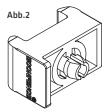
8. Spare parts and accessories

Unless stated otherwise, all the article numbers given in these operating instructions are order numbers at the same time.

Order no.	Designation	Fig.
ZB10076	Pin chuck for mesh support (wooden)	
ZB21012	Mesh support, corner post (drive-in version), black plastic, for a post profile measuring 60x40mm	2
ZB31048	B31048 Lower mesh connector for BL universal corner post for post profile 60x40mm, with screw	
ZB20025	Hilti stud anchor, galvanised steel, HSA M10x113 50/40/10 for non-cracked concrete	
ZB40005	Mesh customisations and recesses according to customer layout	

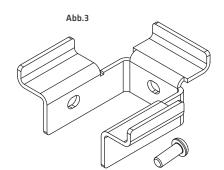








Should you have any further questions, please contact us on +49 (0) 5223 791995-0.







...we protect people!

TIEMANN
Schutz-Systeme GmbH
Lübbecker Straße 16
32257 Bünde
Germany
Fon +49 (0)5223 791995-0
Fax +49 (0)5223 791995-90
www.econfence.com
info@econfence.com



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