

« Erhöhte
Lagersicherheit »

DTE
CONCEPT

Funktionale Sicherheitselemente

Rückwandgitter, Seitenwandgitter, Fallschutzelemente,
Gitterboden, Industrierwand, Maschinenschutz, Durchfallschutz,
Fahrgassenschutz, Durchschubschutz, Gittertrennwände



Sicherheitselemente, Personenschutz, Maschinenschutz

2012/2013

Konzeption Planung Realisation Montage
Gitterschutzelemente www.dte-concept.ch
Archiv Lager Logistik Automatic-Systems

Regalsysteme

Palettenregale, Hochregale (HRL)
Kragarmregale, Langgutregale (KR)
Drive-In Regale (DR)
Silo-Regalkonstruktion (SRK)
Weitspannregale (WSR)
MINI-Langgutregale
Fachbodenregale, verzinkt, CNS
Plattenregale
Stehregale, Vertikal-Regal

Dynamische Systeme (LIFO / FIFO)

Durchlaufregale für Paletten (DLP)
Durchlaufregale für Kleingebinde (DLK)
Automatisierte Drive-In Satellitenförderer
FlowRail Dynamisches LIFO-System

Automatische Lagersysteme

Industrie-Vertikallifte für Langgut
Vertikallift für Platten
Automatische Vertikalhochregallifte (VHL)
Automatische Regalbediengeräte

Verschiebeanlagen

Verschieberegale
Schwerlast-Auszugregale, Schwerlast-Fahranlagen

Bühnen und Geschossregale

Steckbühnen
Geschossregale (GSR)

Übergabestellen / Schleusen / Barrieren

Paletten-Übergabe & Schleusen

Trennwände und Personenschutz

Schiebetore & Gittertrennwände
Fallschutzgitter
Maschinenschutzgitter, Anlagenschutzgitter
Gitterböden

Archiv- und Verschieberegale

Fachbodenregale, verzinkt
Archivanlagen, Rollregalanlagen
Duplex-Rollregale
MINI-Rollregale
Gemälde-Verschiebeanlagen

Arbeitsplatzsysteme

Werkbänke, Arbeitstische
Schubladenschränke
Montage-Boy

Schränke

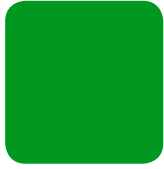
Flügelschränke, Schiebetürschränke
Schubladenschränke
Garderobenschränke
Sportschränke
Feuerwehrschränke
Medikamentenschränke
Patientenfahrwagen

Sicherheitsschränke

Feuerschutzschränke und Safes
Lagerung von Gefahrstoffen
Lagerung von brennbaren Flüssigkeiten
Umweltschrank - für wassergefährdende Stoffe

Transportgeräte

Montage-Boy
Handgabelhubwagen



Rear mesh
Rückwandgitter

4-15



Side mesh
Seitenwandgitter

16-21



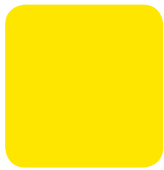
Bay mesh
Fallschutzelemente

22-27



Wire mesh decks
Gitterboden

28-33



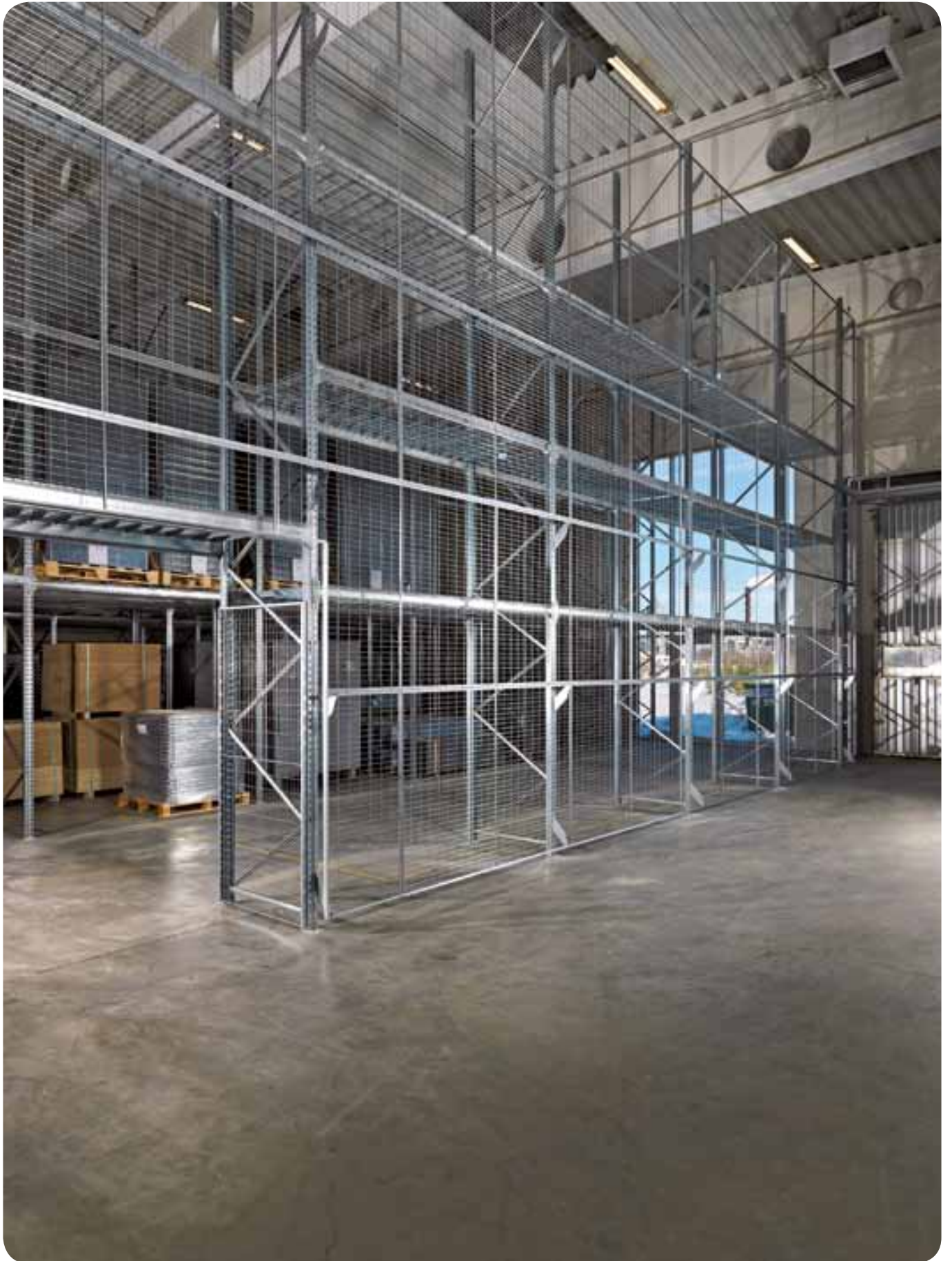
Industrial walls
Industriewand

34-69



Machine guards
Maschinenschutz

70-113





Rear mesh

Product description

Anti collapse mesh in steel is fitted to the rear of the pallet racking to prevent goods from falling out and causing injury to personnel or damage to goods beneath.

Constructed in a brickwork pattern for additional strength, the panels are then bolted together to give the desired width and height. Heights are available in intervals of 100 mm, the width of the end panels is cut to suit on site and finished using trim kits.

Available in three mesh sizes

- Mesh 38x97 mm, for normal circumstances.
- Mesh 18x97 mm, for automated stores meeting the safety requirements of a safety distance of 120 mm according to EN ISO 13857:2008 table 4.
- Mesh 18x25 mm, for aerosol storages.

The mesh panels joint together using two different methods

- Front of rack, with clamps and sheet metal screws, this method saves installation time.
- Inside the rack, with bolt and nuts. An example of using this method is assembling mesh in between a double rack.

The mesh panels are attached using standoff brackets or bolts directly on to the racking uprights. Standoff brackets fit most common brands of pallet racking on the market.

Upright extension

For extending the upright when the mesh needs to finish higher.

Lager opening

Trimming kits for larger openings in the mesh screen.

Surface

All standard parts are galvanized (8-25 µm) for use indoors. Also available powder coated in any RAL colour.

Produktbeschreibung

Garantells Rückwandgitter bietet mit einer einzigartigen Konstruktion einen sicheren Schutz gegen Waren die vom Pallettenregal herunterfallen und Verletzungen verursachen.

Die Rückwandelemente werden wie im Ziegelsteinverfahren miteinander montiert. Die Gesamthöhe der Rückwand ist in Abständen von 100mm erhältlich. Das letzte Element wird am Platz auf die gewünschte Länge zugeschnitten und endet mit U-Profilen, die in der Höhe der Elemente geliefert werden.

Maschenweite für Gitterrückwand

- Maschenweite 38x97 Standard und kostengünstig
- Maschenweite 18x97 hat einen Sicherheitsabstand von 120mm und wird oft in vollautomatischen Lagern verwendet. Gemäss EN ISO 13857:2008 Tabelle 4.
- Maschenweite 18x25 für Aerosol Lager (wo ein Risiko für eine Explosion besteht)

Zwei verschiedene Methoden für die Montage der Rückwand

- Von der Aussenseite des Pallettenregales werden die Elemente mit Clips und Schrauben montiert, welches die schnellste Montageweise ist.
- Von der Innenseite werden die Elemente mit Schrauben und Muttern montiert, was manchmal zwischen Doppel Pallettenregalen notwendig ist.

Die Gitterrückwand wird mit Hilfe von Haltekonsolen, oder direkt an die Regalstützen verschraubt. Die Haltekonsolen passen den meisten Pallettenregalen auf dem Markt

Stützenverlängerungen

Wenn die Rückwand höher als die Pallettenregalstützen sein soll, bieten wir Stützenverlängerungen an.

Durchfahrt/Ausschnitte

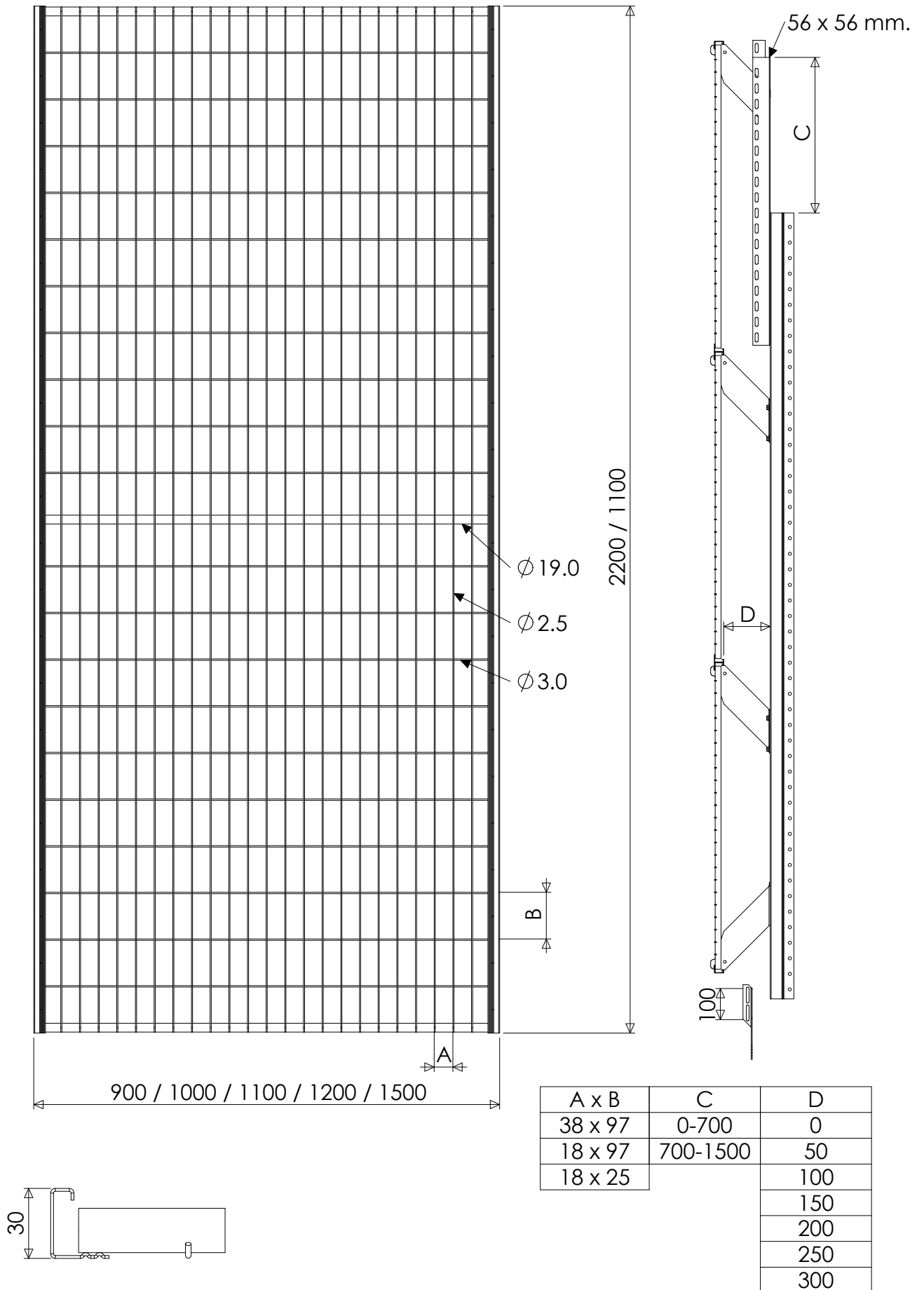
Profilpaket angepasst für grössere Ausschnitte im Rückwandgitter.

Oberflächenbehandlung

Standardmässig sind alle Teile mit einer dünnen Schicht Zink (8-25µm) behandelt und ist für die Anwendung im Innenbereich geeignet. Unsere Produkte können auch in jeder RAL Farbe geliefert werden.

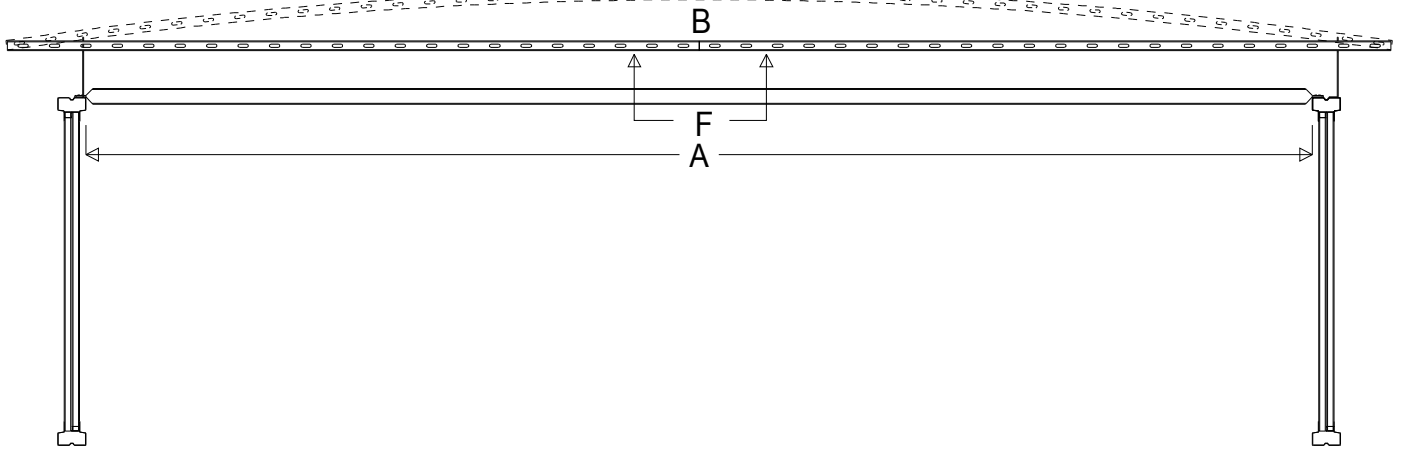
Material

Material



Strength

Bruchwiderstand



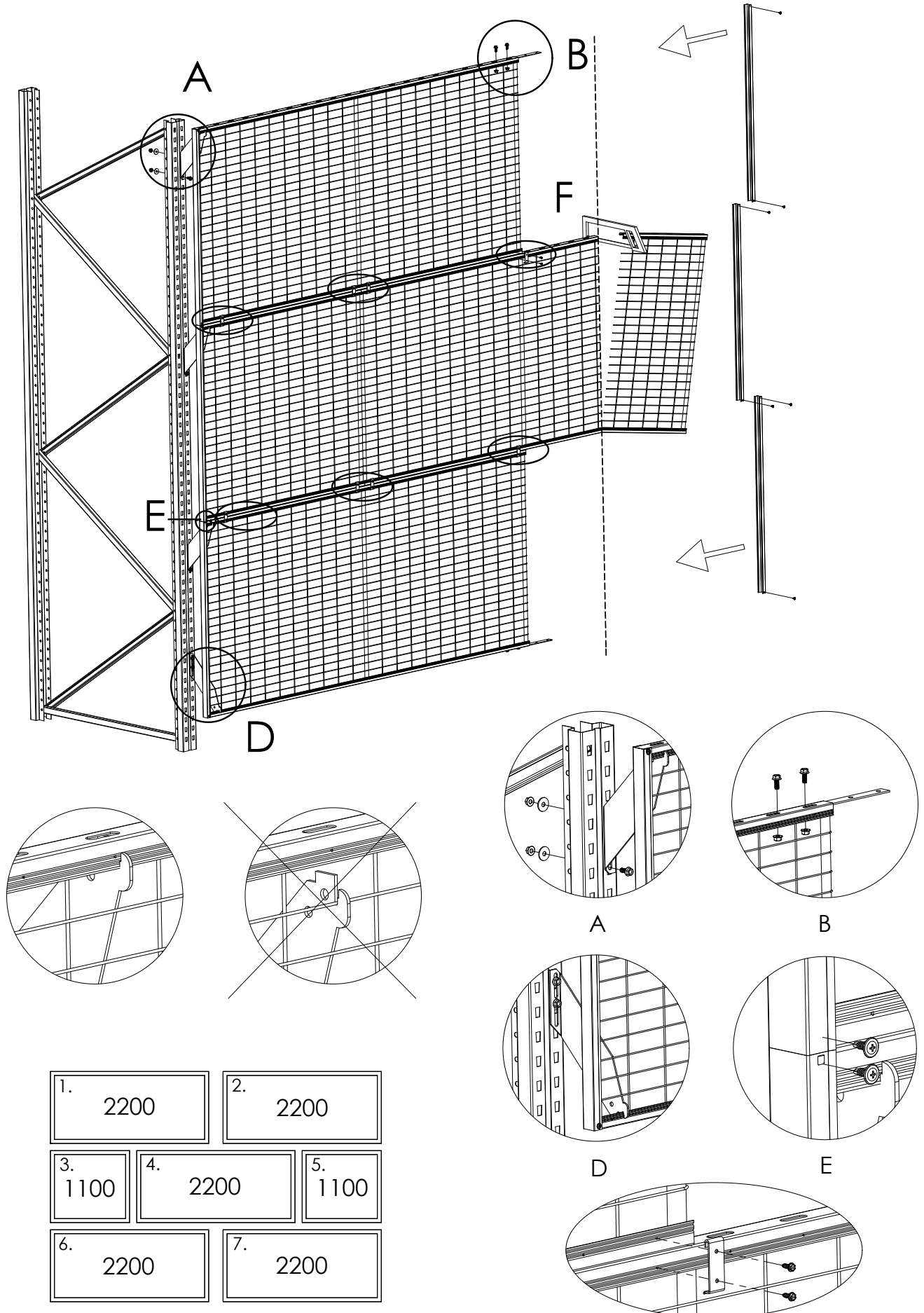
Load without deflection.
Belastung ohne Deformierung.

F (N)	A (mm)	B (mm)
1100	1800	90
	2700	140
	3300	170
	3600	190



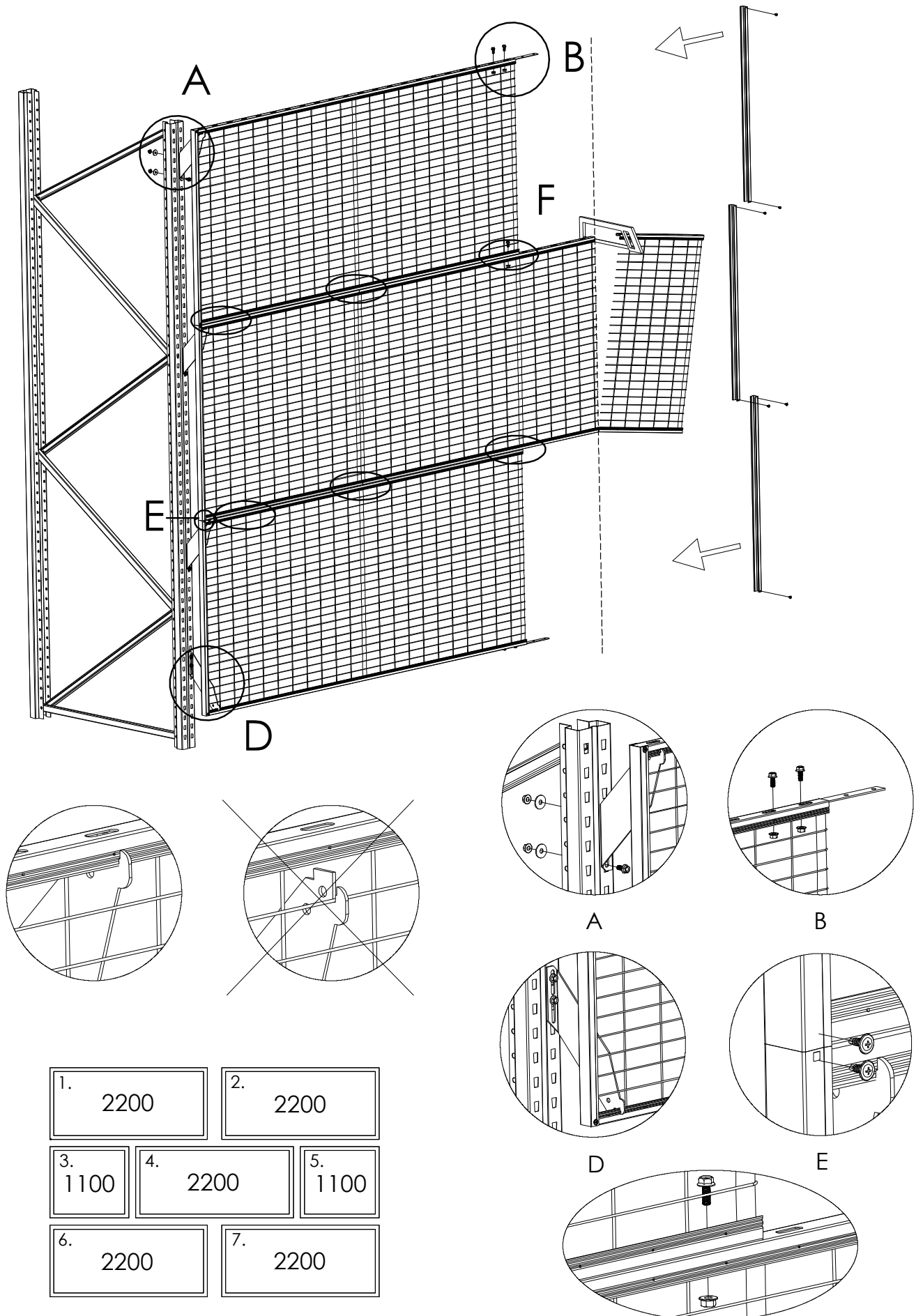
Front assembly

Montage von aussen



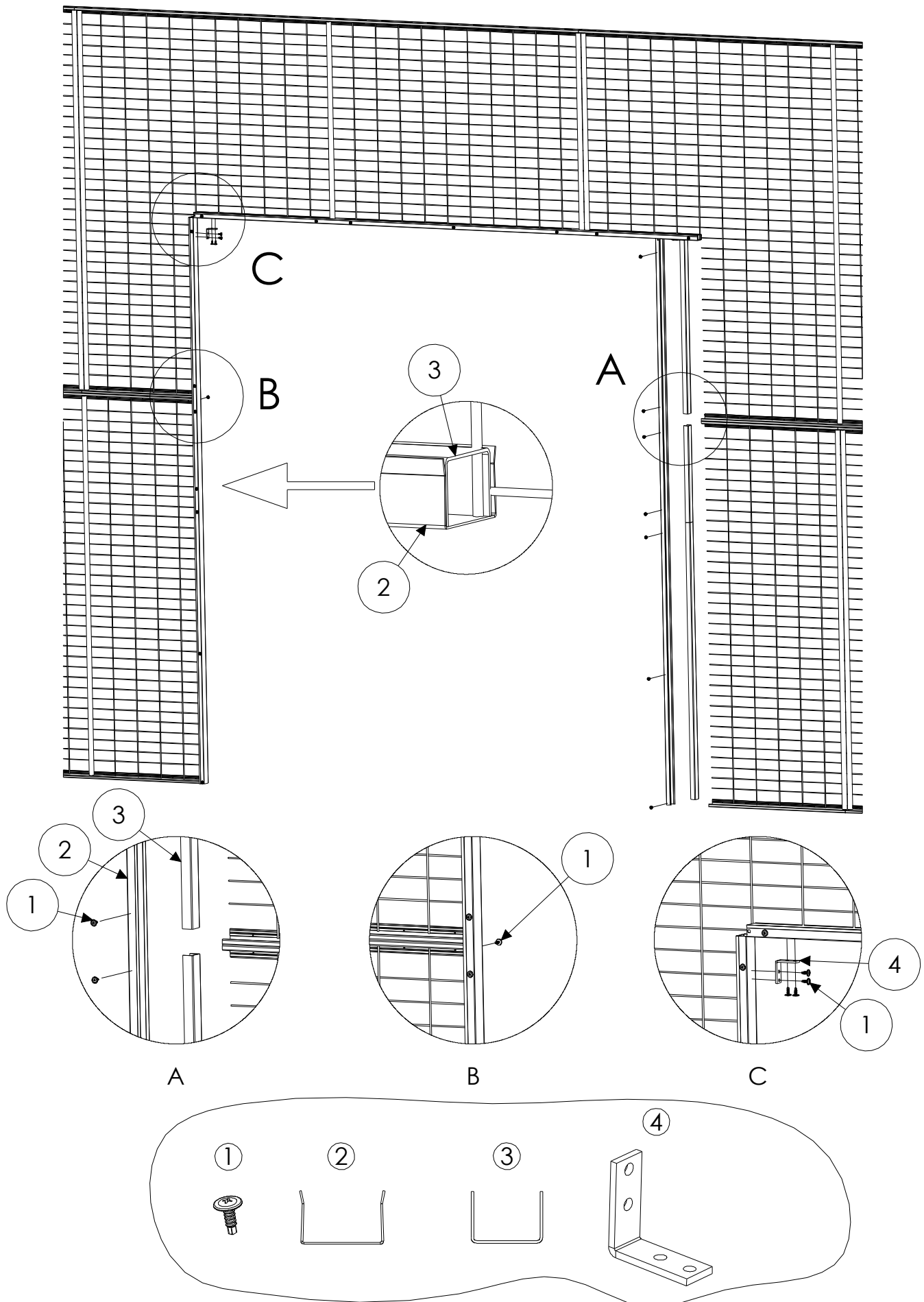
Assembly from the inside

Montage von innen



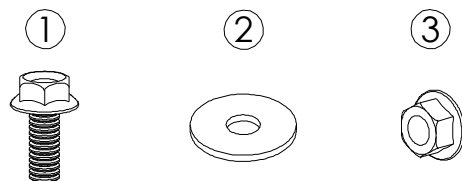
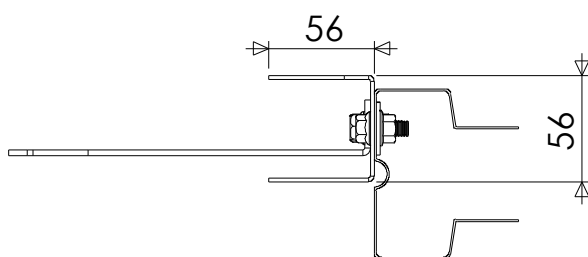
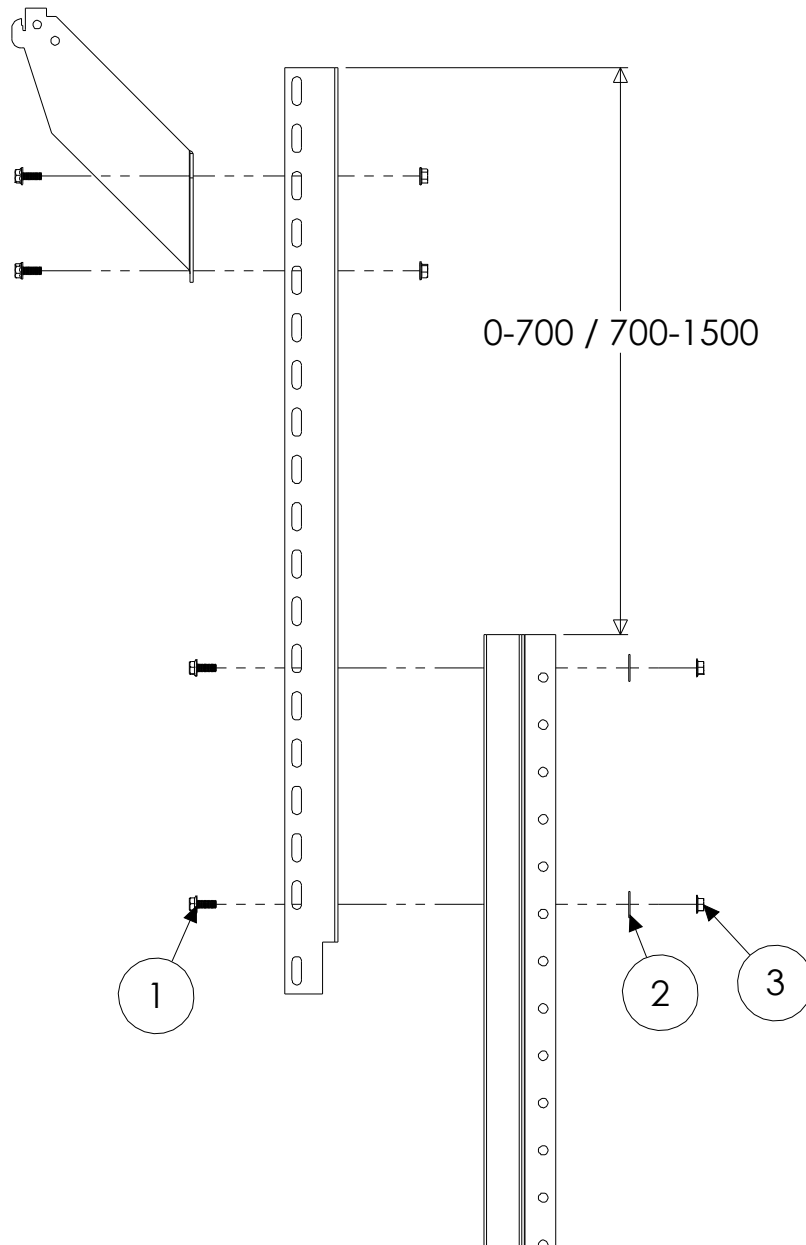
Larger openings

Grössere Öffnungen



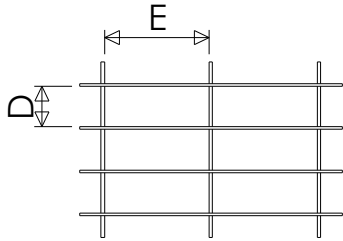
Upright extension

Stützenerhöhungen

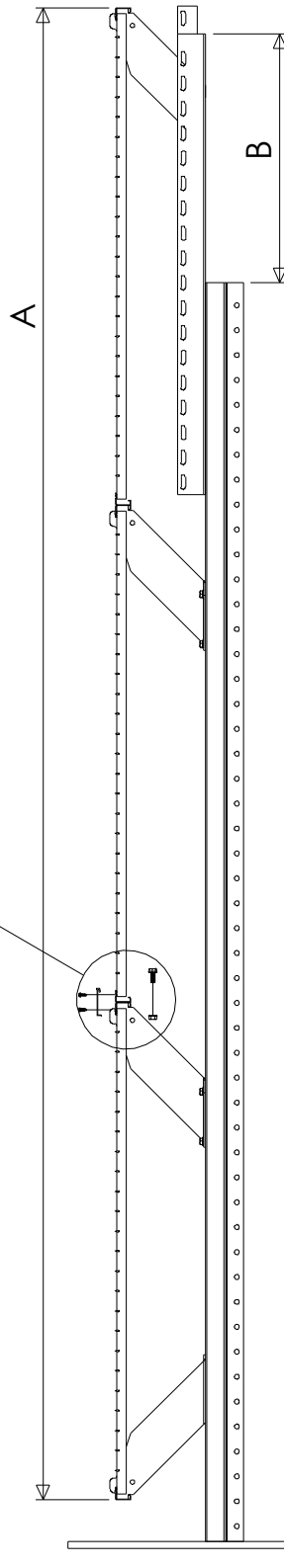


Purchase form

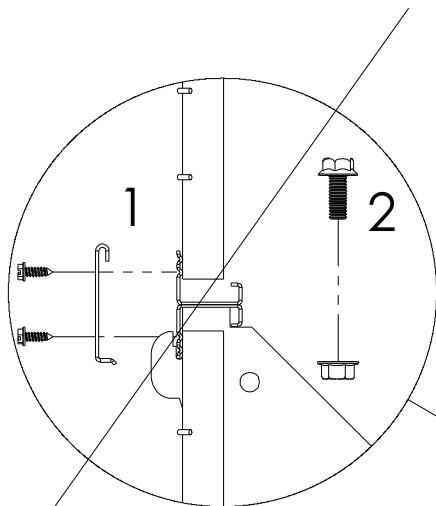
Bestellungsformular



D x E (mm)	
<input type="checkbox"/>	38 x 97
<input type="checkbox"/>	18 x 97
<input type="checkbox"/>	18 x 25

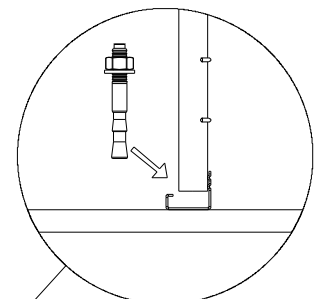
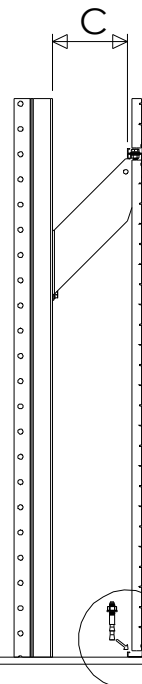


B (mm)	
<input type="checkbox"/>	0-700
<input type="checkbox"/>	700-1500



1	2
<input type="checkbox"/>	<input type="checkbox"/>

C (mm)	
<input type="checkbox"/>	0
<input type="checkbox"/>	50
<input type="checkbox"/>	100
<input type="checkbox"/>	150
<input type="checkbox"/>	200
<input type="checkbox"/>	250
<input type="checkbox"/>	300



Yes	No
<input type="checkbox"/>	<input type="checkbox"/>

Height (A): _____ (mm)

Length: _____ (mm)

Number of uprights: _____ (QTY)



Side mesh

Product description

Anti collapse mesh in steel is fitted to the side of the pallet racking and prevents goods from falling out and causing injury to personnel or damage to goods below.

Constructed using standard panels bolted directly to the uprights, the height of the end panels is cut to suit on site and finished with the trim kits.

Available in three sizes

- Mesh 38x97 mm, for normal circumstances
- Mesh 18x97 mm, for automated stores meet the safety requirements of a safety distance of 120 mm according to EN ISO 13857:2008, table 4.
- Mesh 18x25 mm for aerosol storages.

Finishing

All standard parts are galvanized (8-25 µm) for use indoors. Also available powder coated in any RAL colour.



Produktbeschreibung

Seitenwandgitter in Stahl mit der gleichen Funktion wie das Rückwandgitter. Wird an der Stirnseite des Pallettenregales montiert und verhindert das Waren herunterfallen und Verletzungen oder Materialschäden entstehen.

Das Seitenwandgitter basiert auf Standard Gitterelementen, die direkt an den Regalstützen verschraubt werden. Das letzte Element wird vor Ort auf die gewünschte Höhe zugeschnitten und mit U-Profilen abgeschlossen.

Maschenweite der Seitenwand

- Maschenweite 38x97 Standard und kostengünstig
- Maschenweite 18x97 hat einen Sicherheitsabstand von 120mm und wird oft in vollautomatischen Lagern verwendet. Gemäss EN ISO 13857:2008 Tabelle 4.
- Maschenweite 18x25 für Aerosol Lager (wo ein Risiko für eine Explosion besteht)

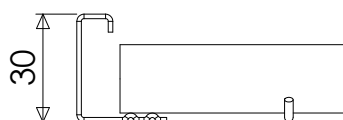
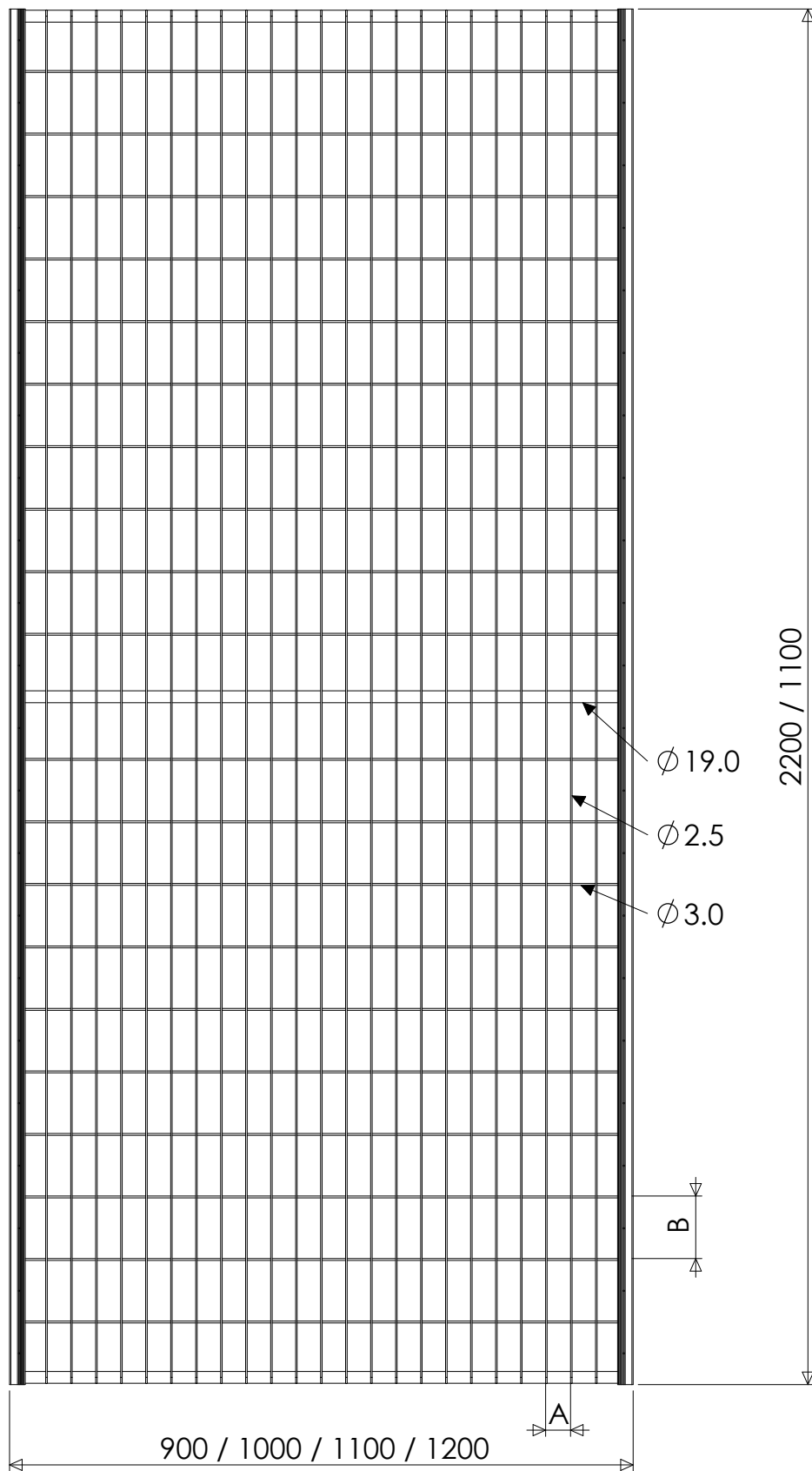
Oberflächenbehandlung

Standardmässig sind alle Teile mit einer dünnen Schicht Zink (8-25µm) behandelt und ist für die Anwendung im Innenbereich geeignet. Unsere Produkte können auch in jeder RAL Farbe geliefert werden.



Material

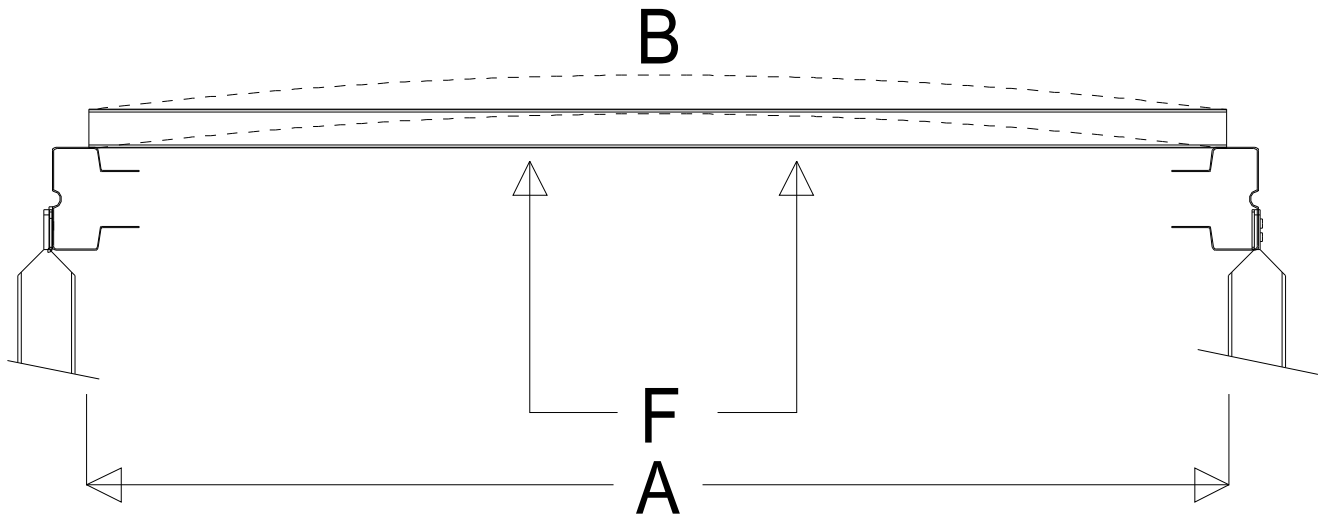
Material



A x B
38 x 97
18 x 97
18 x 25

Strength

Bruchwiderstand

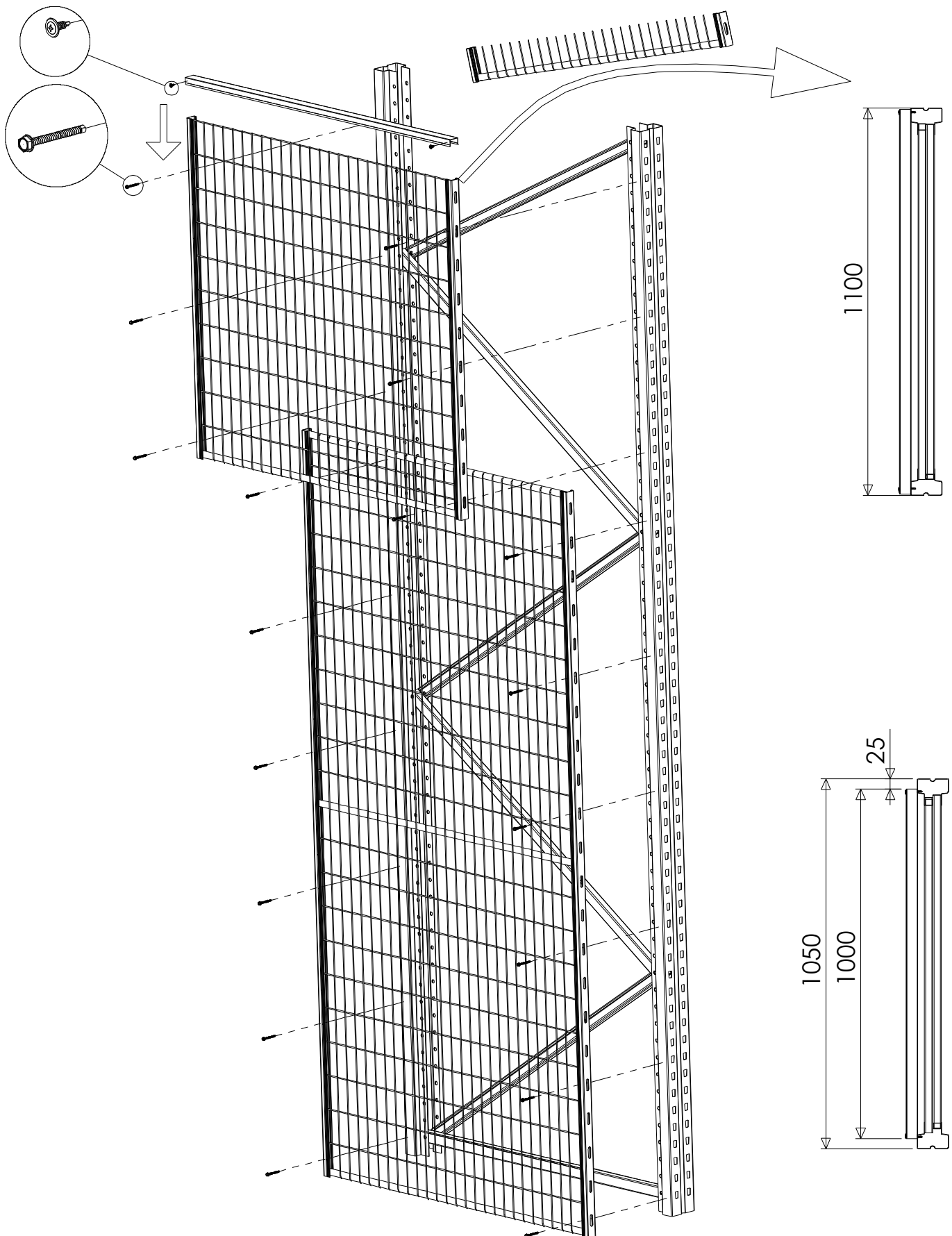


Load without deflection.
Belastung ohne Deformierung.

F (N)	A (mm)	B (mm)
900	900	75
	1000	80
	1100	85
	1200	95

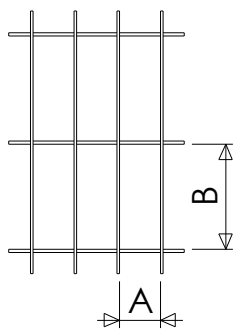
Assembly instruction

Montageanleitung



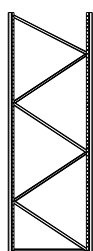
Purchase form

Bestellungsformular

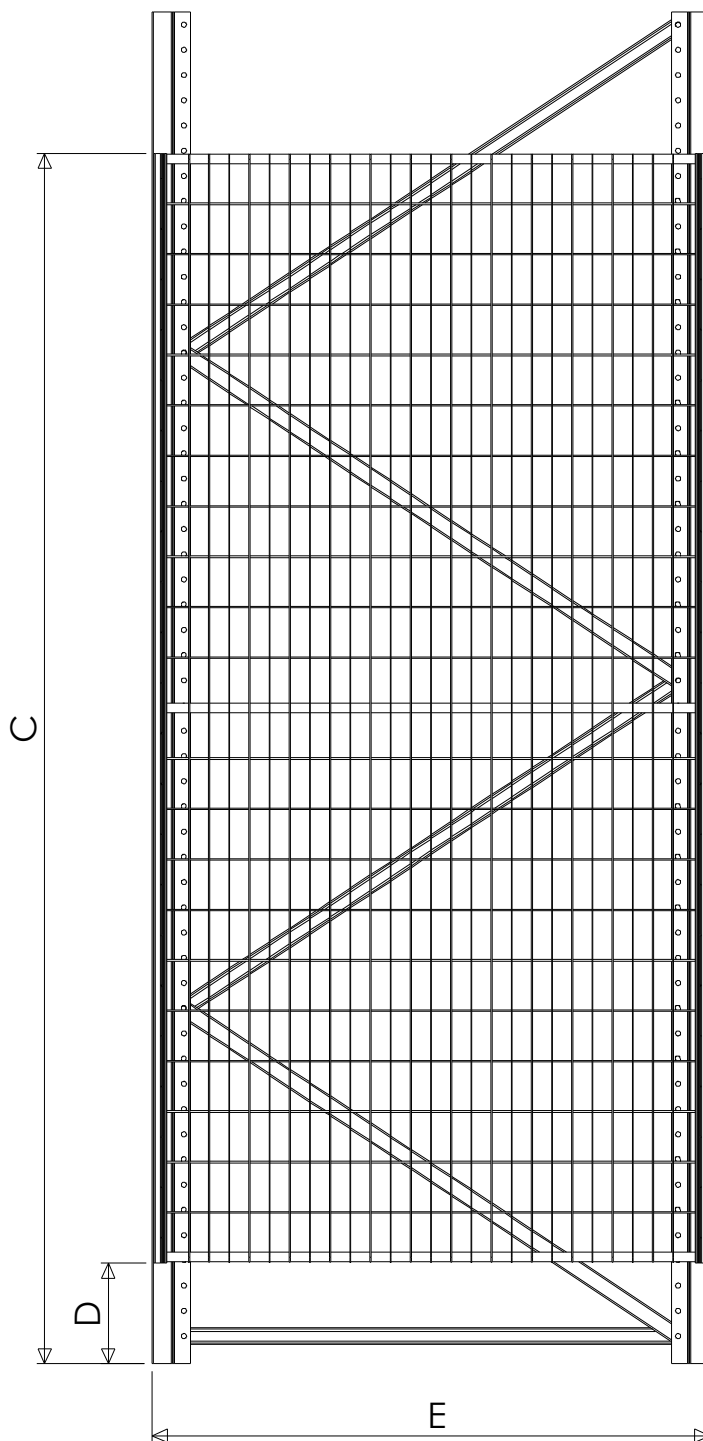


A x B (mm)	
<input type="checkbox"/>	38 x 97
<input type="checkbox"/>	18 x 97
<input type="checkbox"/>	18 x 25

(mm)	
C	<input type="text"/>
D	<input type="text"/>
E	<input type="text"/>



QTY.	<input type="text"/>
	<input type="text"/>



Bay mesh

Product description

Garantells bay mesh, in steel prevents goods from falling down. The width of panels is the same as the bay width (beam length), no adjustment on site required.

Available in three sizes

- Mesh 38x97 mm, for normal circumstances.
- Mesh 18x97 mm, for automated stores meet the safety requirements of a safety distance of 120 mm according to EN ISO 13857:2008, table 4.
- Mesh 18x25 mm, for aerosol storages.

Upright extension

For extending the upright when the mesh needs to finish higher.

Finishing

All standard parts are galvanized (8-25 µm) for use indoors. Also available powder coated in any RAL colour.



Produktbeschreibung

Garantells Fallschutzelemente geben einen sicheren Schutz für Waren, die von Palettenregalen herunterfallen und Verletzungen oder Materialschäden verursachen können. Die Fallschutzelemente haben das gleiche Mass wie ein Palettenregalfach. Die Montage oder das Abnehmen der Fallschutzgitter wird dadurch vereinfacht.

Maschenweite Fallschutzelemente

- Maschenweite 38x97 Standard und kostengünstig
- Maschenweite 18x97 hat einen Sicherheitsabstand von 120mm und wird oft in vollautomatischen Lagern verwendet. Gemäss EN ISO 13857:2008 Tabelle 4.
- Maschenweite 18x25 für Aerosol Lager (wo ein Risiko für eine Explosion besteht)

Stützenverlängerungen

Wenn die Rückwand höher als die Palettenregalstützen sein soll, bieten wir Stützenverlängerungen an.

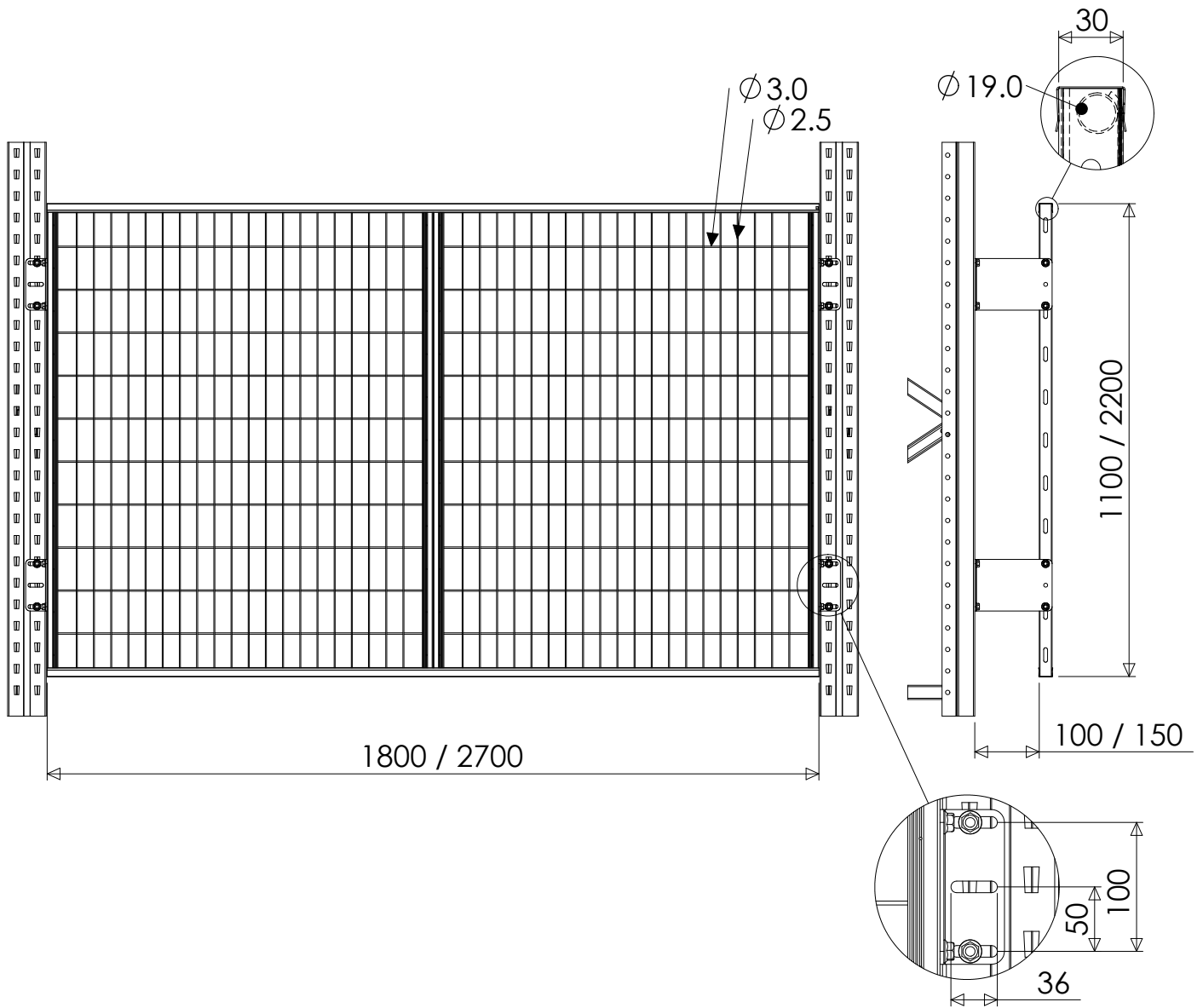
Oberflächenbehandlung

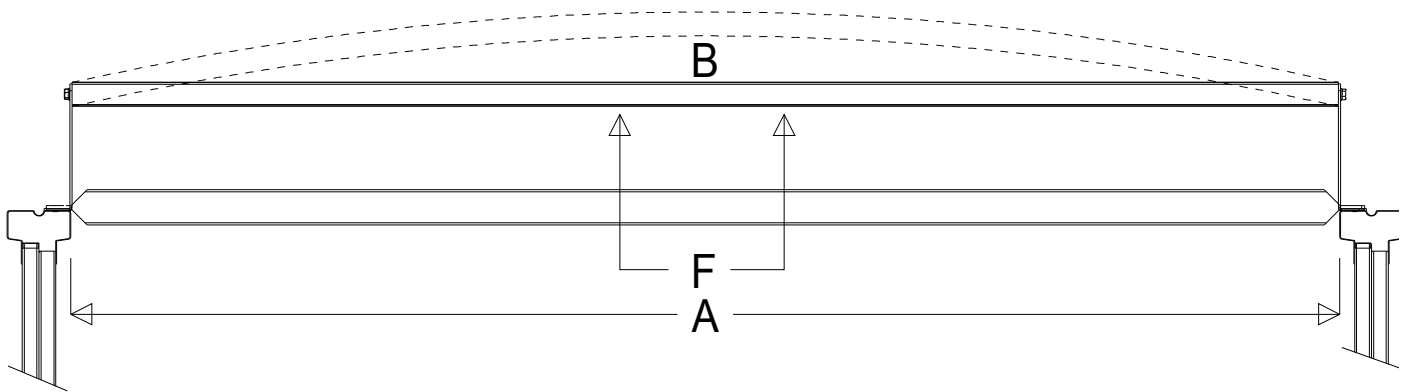
Standardmässig sind alle Teile mit einer dünnen Schicht Zink (8-25µm) behandelt und ist für die Anwendung im Innenbereich geeignet. Unsere Produkte können auch in jeder RAL Farbe geliefert werden.



Material

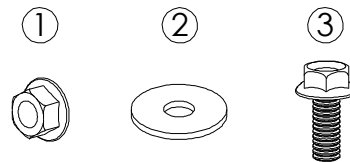
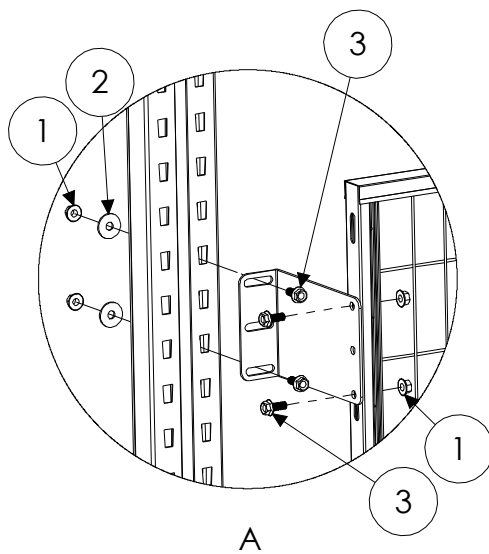
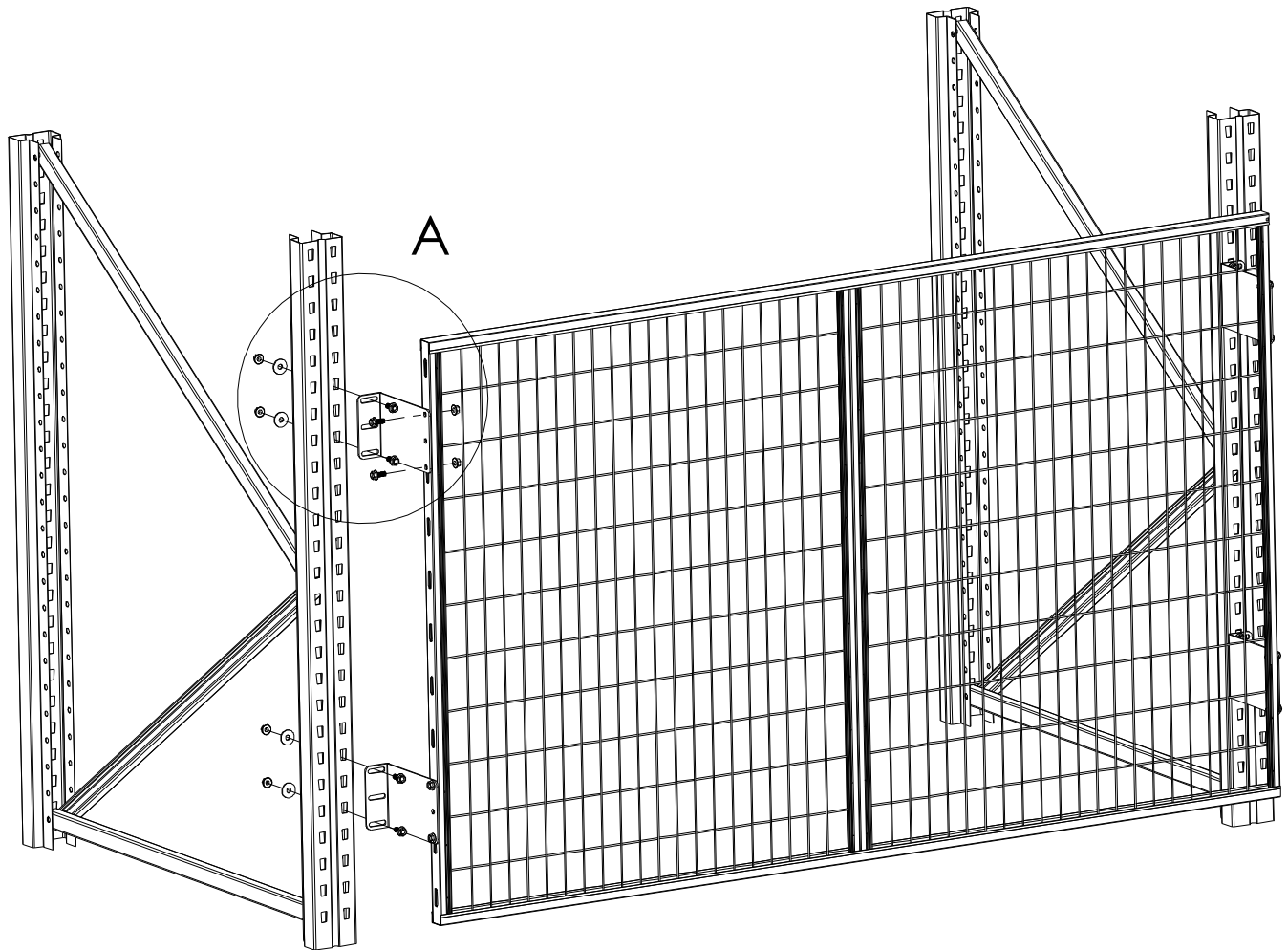
Material





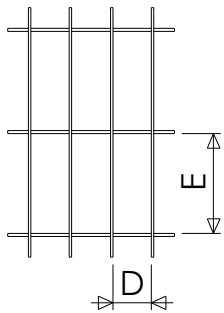
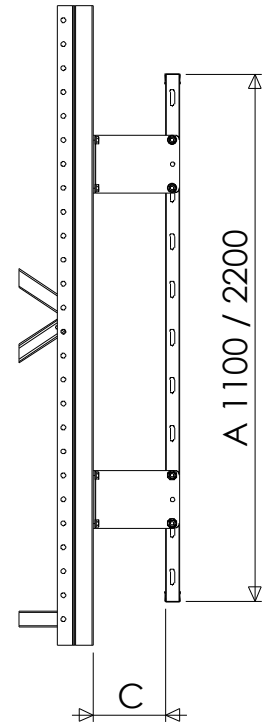
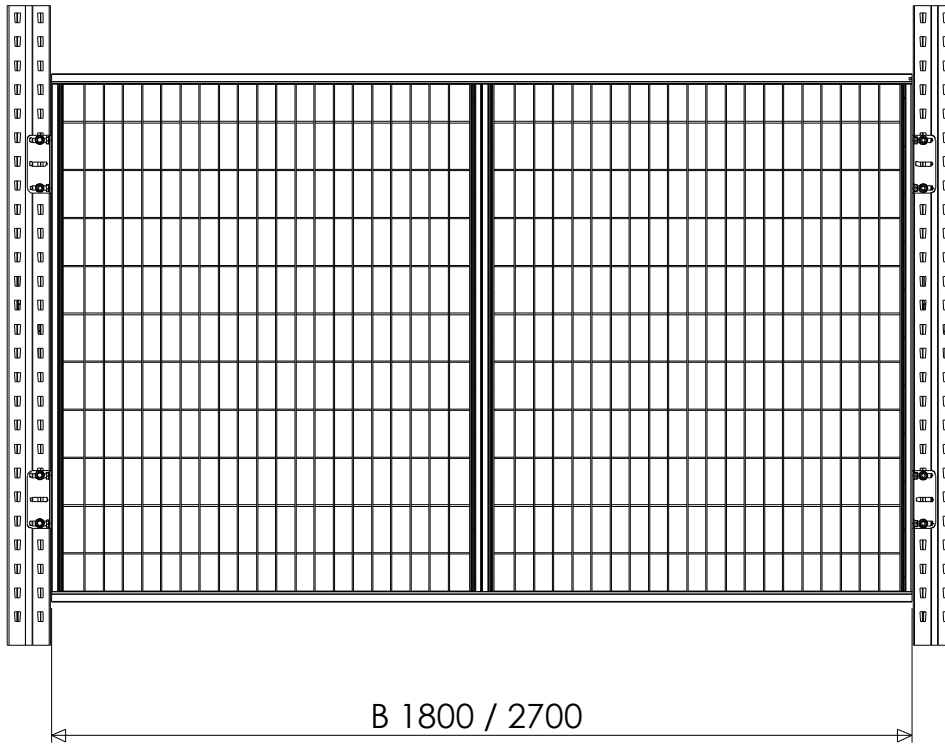
Load without deflection.
Belastung ohne Deformierung.

F (N)	A (mm)	B (mm)
1400	1800	60
1400	2700	80



Purchase form

Bestellungsformular



D x E
38 x 97
18 x 97
18 x 25

QTY.	A x B (mm)
	1100 x 1800
	2200 x 1800
	1100 x 2700
	2200 x 2700

C (mm)
100
150

Wire mesh decks

Product description

Garantells mesh deckings enables, smart and safe storage of goods. They work equally well for storing small items individually or for goods on pallets. The mesh decking is well adapted for modern warehouse spaces. It does not collect dust and will allow light and water to pass through, which is often a requirement if a sprinkler system is installed. The mesh deckings are designed to be gentle against handled goods and allow goods to slide in and out easily. The top wires run from front to back and are bent to sit over the pallet racking beams, thus strengthening the racking beam and preventing the shelf from falling out by overload.

Clip dividers

Garantells divider is freestanding, enabling it to attach quickly to our decks using two special clips, which are welded to the divider.

Surface

All standard parts are galvanized (8-25 µm) for use indoors. Also available powder coated in any RAL colour.



Produktbeschreibung

Garantells Gitterboden ermöglichen eine intelligente und sichere Lagerung von Waren. Es ist sowohl für die Lagerung von kleinen Kartons geeignet, als auch von Waren auf Palletten. Es ist gut angepasst für moderne Lager, da es Staub und Wasser durchlässig ist, was häufig eine Voraussetzung bei Hallen mit Sprinkleranlagen ist. Die Ware gleitet leicht auf den Gitterböden, und es hat keine scharfen Kanten, welches die Ware beschädigen könnten. Die oberliegenden Drahte laufen in Tiefenrichtung und über den Balken abgekantet, die das Risiko, dass ein Gitterboden bei einer Überbelastung herausfällt, minimiert.

Fachteiler

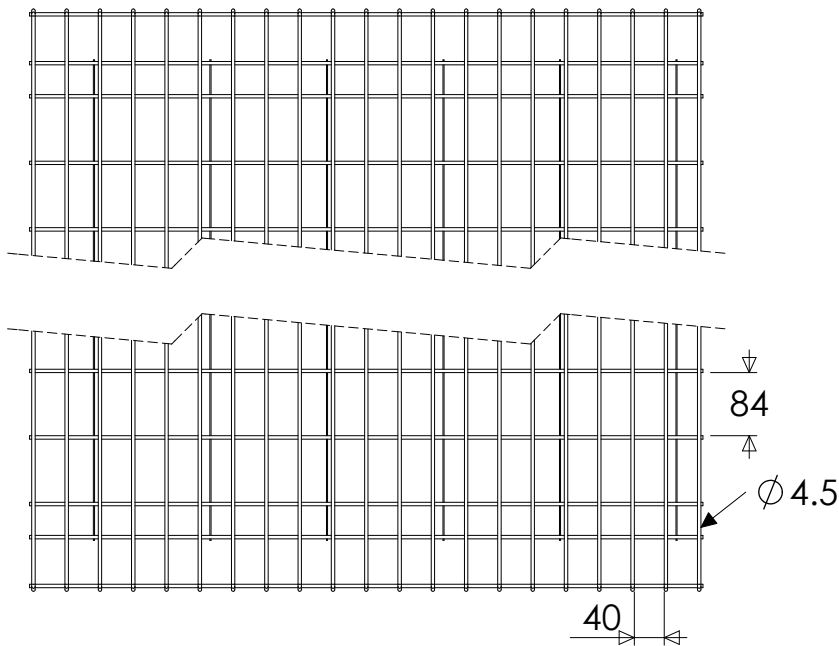
Garantells Fachteiler werden einfach mit Hilfe von zwei Clips, die am Fachteiler angeschweisst sind, am Gitterboden montiert.

Oberflächenbehandlung

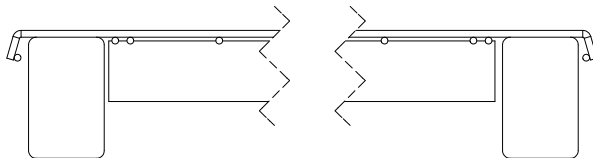
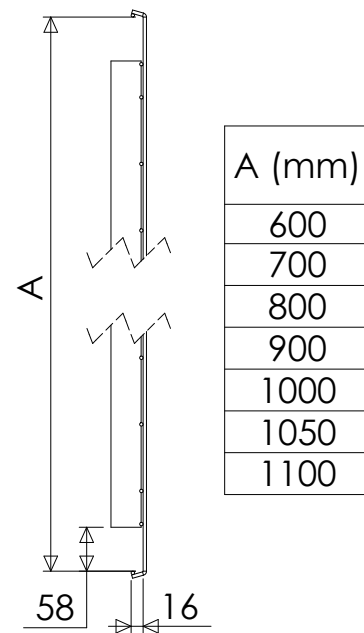
Standardmässig sind alle Teile mit einer dünnen Schicht Zink (8-25µm) behandelt und ist für die Anwendung im Innenbereich geeignet. Unsere Produkte können auch in jeder RAL Farbe geliefert werden.



Material / Strength



Material / Bruchwiderstand



NB! The load capacities are only valid according to this installation.

Die Belastungskapazität ist nur nach dieser Installation zugelassen.

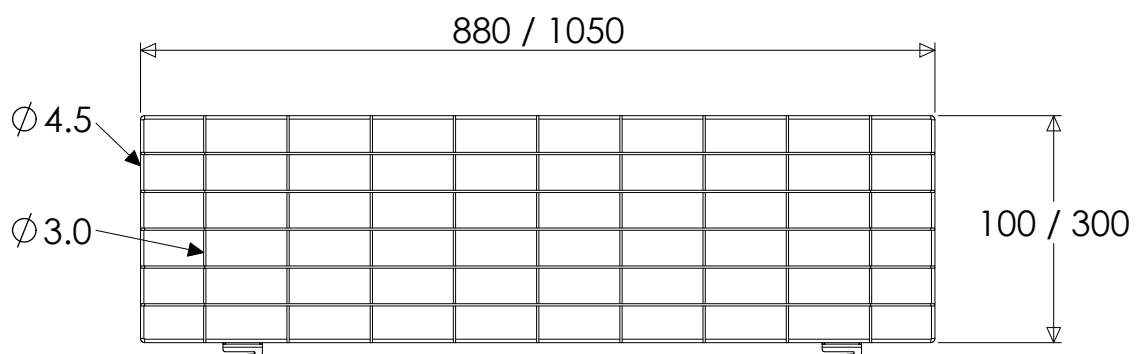
B*	C*
125 kg / m ²	18 kg
250 kg / m ²	37 kg
500 kg / m ²	75 kg
800 kg / m ²	112 kg
1000 kg / m ²	150 kg

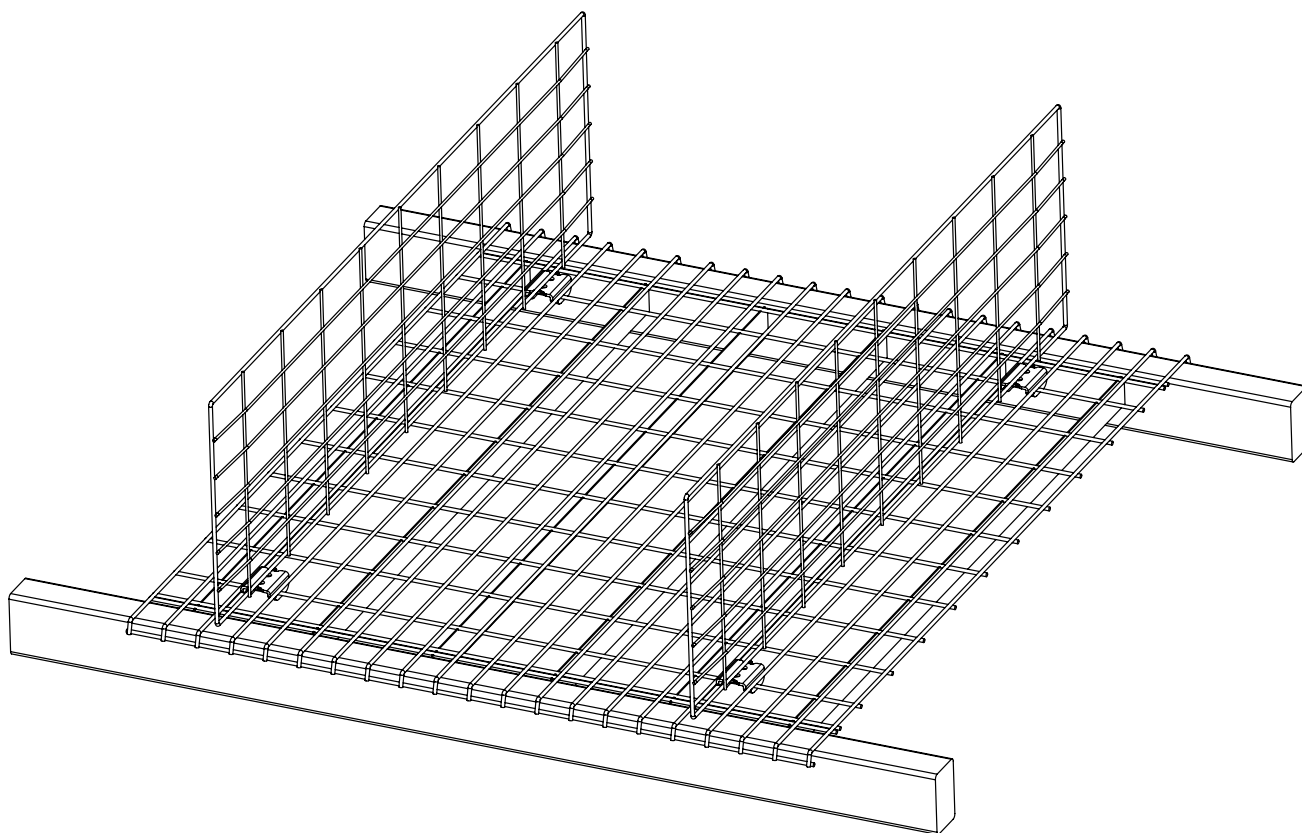
The maximal load capacities in above table are tested of accredited testing institute, according to following international standards:
EN 15629

Die maximale Belastungskapazität in beiden Tabellen ist von einem zugelassenen Prüfinstitut nach den folgenden internationalen Normen getestet worden:
EN 15629

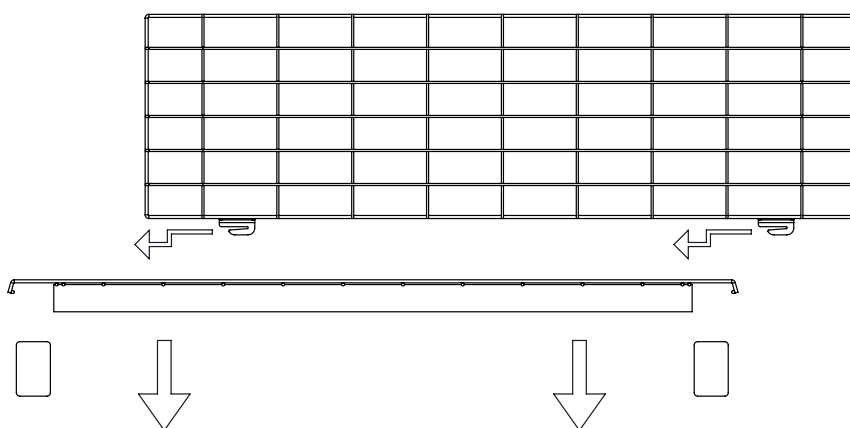
*B (Static uniformed distributed load)
*C (Static point load 100x100 mm)

*B (Statische gleich verteilte Last)
*C (Statische Punktbelastung 100x100 mm)



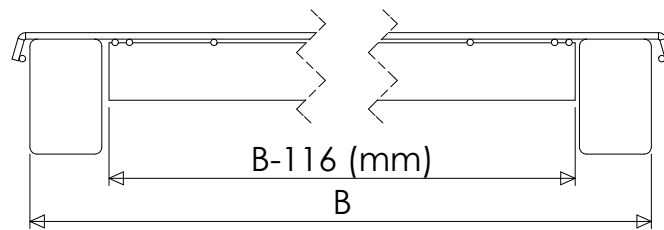
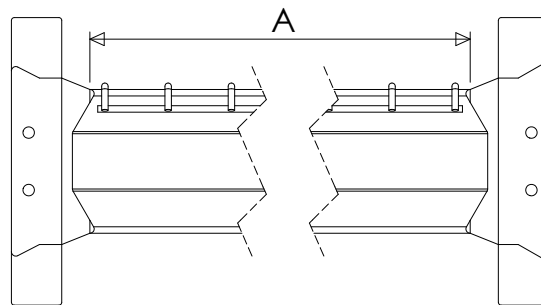


Fachteiler für Gitterboden

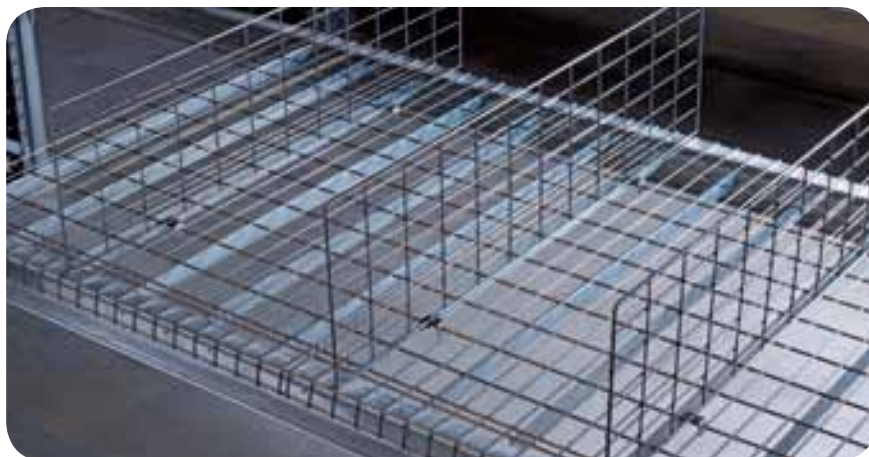


Purchase form

Bestellungsformular



	B (mm)	kg / m ²
	600	125
A (mm)	700	250
	800	500
	900	800
QTY A	1000	1000
	1050	
	1100	
	1200	







Industrial walls

With focus on stability and short installation times, have we developed an industrial wall, that meets most of the market's needs. The strength lies in stable posts and pre-assembled heavy doors, providing a stable system that can be assembled quickly. The installation costs are often a relatively large proportion of the total cost of a safety net. The customer can save time on site with our warehouse wall, and we reduce the risk that something goes missing or is incorrectly installed.

Mesh element - mesh

- Mesh size 18x97 mm - standard
- Mesh size 18x25 mm - aerosol

Mesh elements - accessories

- Vertical cutting kit - profile kit for width adjustment
- Horizontal cutting kit - profile kit for height adjustment
- End moulding - edge protectors made of rubber for smaller cut outs in the mesh

Post

- Single post
- Double posts - used for higher fencing or as reinforcement around bigger doors

Post assembling - floor

- Anchor bolts - standard
- Chemical fixing
- J-hook - for gratings

Roof

Roof of mesh modules for cages.

Door - options

- Single hinged door
- Double hinged door
- Top rail door
- Top rail double door centre locking
- Side hung sliding door without upper rail
- Side hung sliding double door, centre locking, without upper rail

Door - locking options

- For padlock
- For Eurocylinder
- For Eurocylinder with panic function in the handle
- For Eurocylinder with panic bar

Doors - accessories

- Eurocylinder
- Eurocylinder - key alike
- Door closer

Surface

As standard we offer our mesh elements galvanized (8-25 µm), doors and posts are powder coated in silver grey (Ral 9006) for use indoors. Also available powder coated in any RAL colour.

Mit Fokus auf Stabilität und kurze Montagezeiten haben wir eine Lagerwand entwickelt, die den unterschiedlichen Bedürfnissen auf dem Markt entspricht. Der Vorteil liegt in den starken Stützen und den vormontierten stabilen Türen, welches ein stabiles System gibt und eine kurze Montagezeit hat. Da die Montagezeiten oft ein relativ grosser Anteil der Gesamtkosten für ein Sicherheitsgitter ist, kann man mit unserer Lagerwand vor Ort Zeit sparen und man reduziert das Risiko, dass etwas fehlt oder falsch montiert wird.

Gitterelemente - Maschenweite

- Maschenweite 18x97 mm - Standard
- Maschenweite 18x25 mm - Aerosol Lager (Treibgas)

Gitterelemente - Zubehör

- Vertikale Kappung - Profilverpaket für die Anpassung der Breite
- Horizontale Kappung - Profilverpaket für die Anpassung der Höhe
- Abschlussleiste - Kantenleiste aus Gummi für kleinere Ausschnitte im Gitter

Stützen

- Einzelstütze
- Doppelstütze - bei höheren Höhen oder als Verstärkung bei grossen Türen

Stützenbefestigung - Boden

- Dübel - Standard
- Chemische Dübel
- J-Haken - für Gitterroste

Dach

Dach mit Gitterelementen für Käfige

Türen - Alternative

- Einzelschwenktür
- Doppelschwenktür
- Schiebetür mit Laufschiene
- Doppelschiebetür mit Mittelschliessung und Laufschiene
- Seitlich hängende Schiebetür ohne Laufschiene
- Seitlich hängende Doppelschiebetür mit Mittelschliessung ohne Laufschiene

Türen - Schlösser

- Für Vorhängeschloss
- Für Euro-Zylinder
- Für Euro-Zylinder mit Fluchtfunktion im Griff
- Für Euro-Zylinder mit Druckstange

Türen - Zubehör

- Euro-Zylinder
- Euro-Zylinder gleiche Schliessung
- Türschliesser

Oberflächenbehandlung

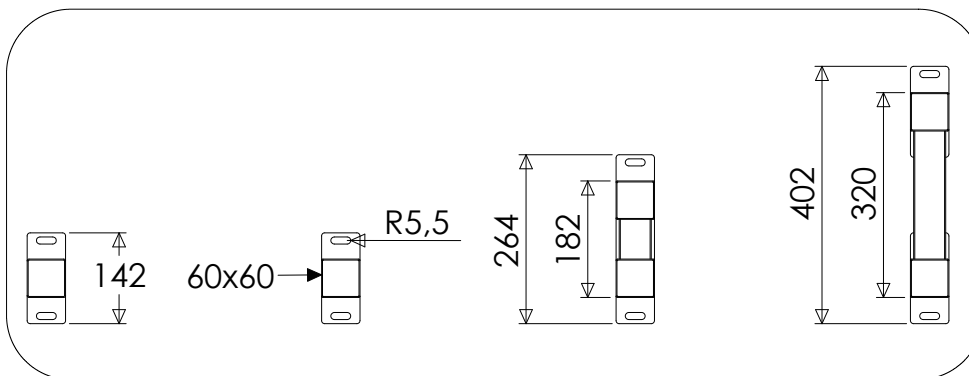
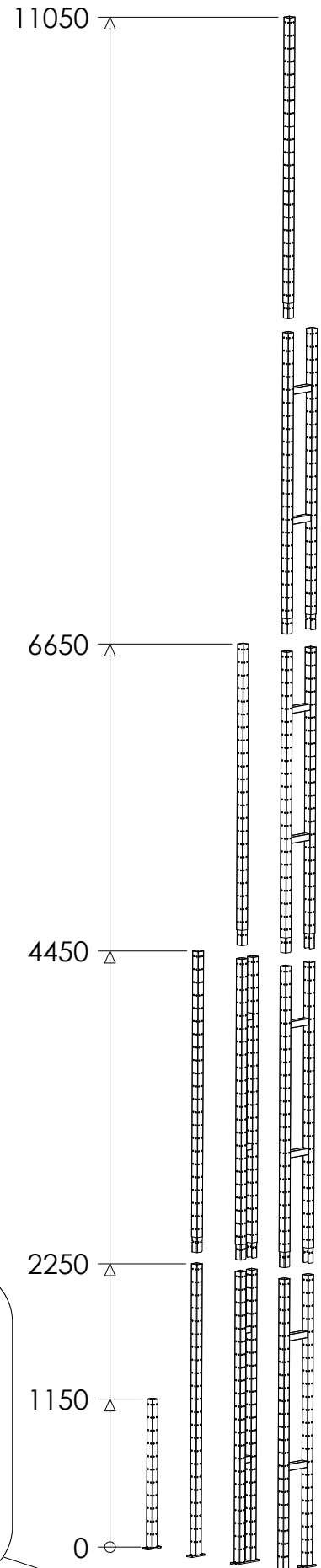
Standardmässig sind alle Teile mit einer dünnen Schicht Zink (8-25µm) behandelt und ist für die Anwendung im Innenbereich geeignet. Die Stützen und Türen sind pulverbeschichtet in der RAL Farbe 9006. Unsere Produkte können auch in jeder RAL Farbe geliefert werden.

Material mesh walls

Standard heights are 1150, 2250 and thereafter in each 200 mm steps up to 11050mm. Floor distance is as standard 50 mm.

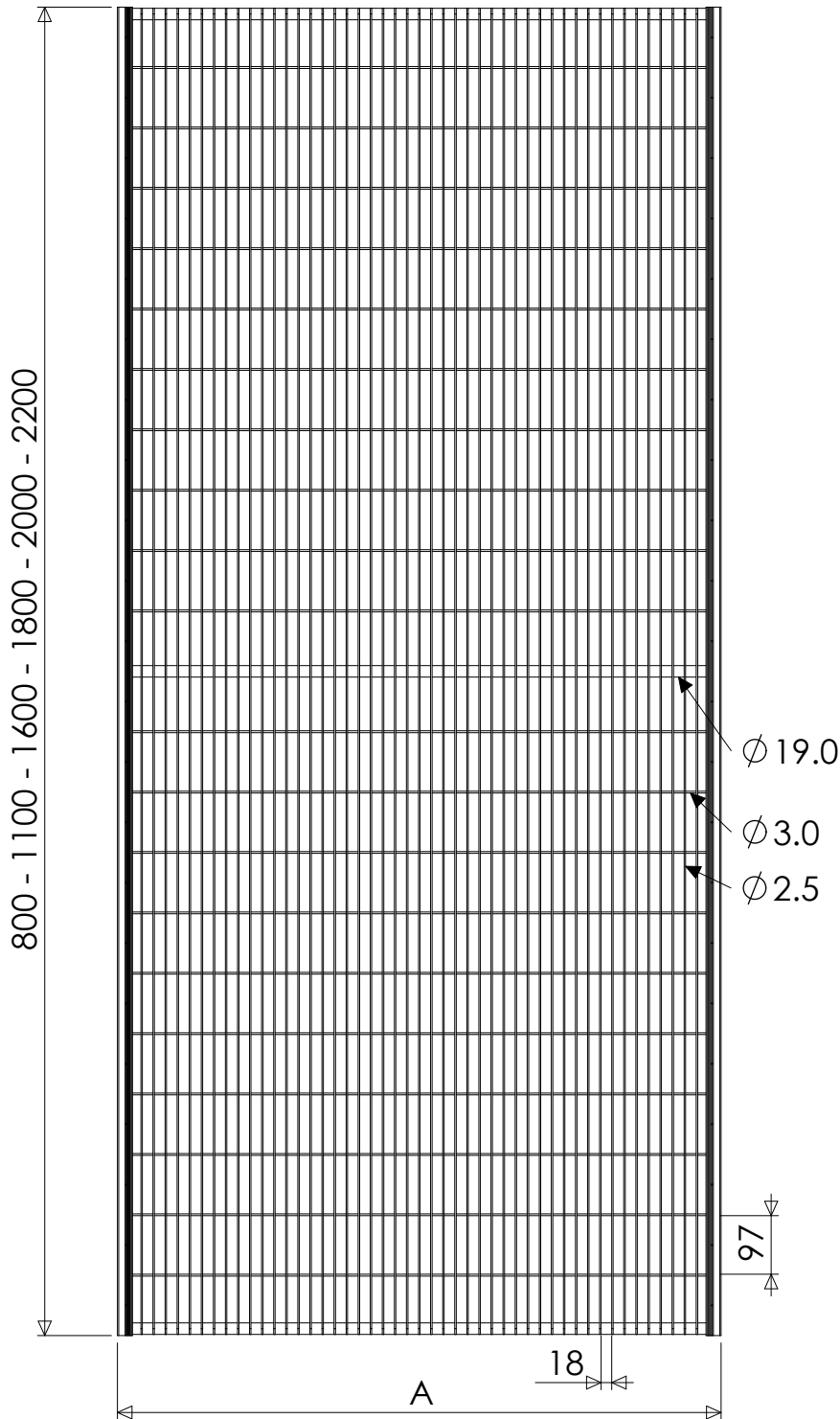
Standardhöhen sind beginnend von 1150, 2250 und danach in 200mm Schritten bis hin zu einer Höhe von 11050mm. Der Bodenabstand beträgt als Standard 50mm.

Material Gitterwänden

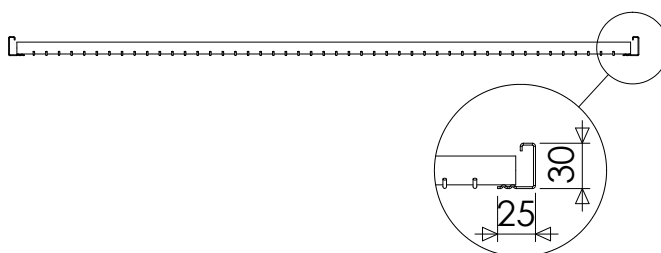


Material mesh walls

Material Gitterwände



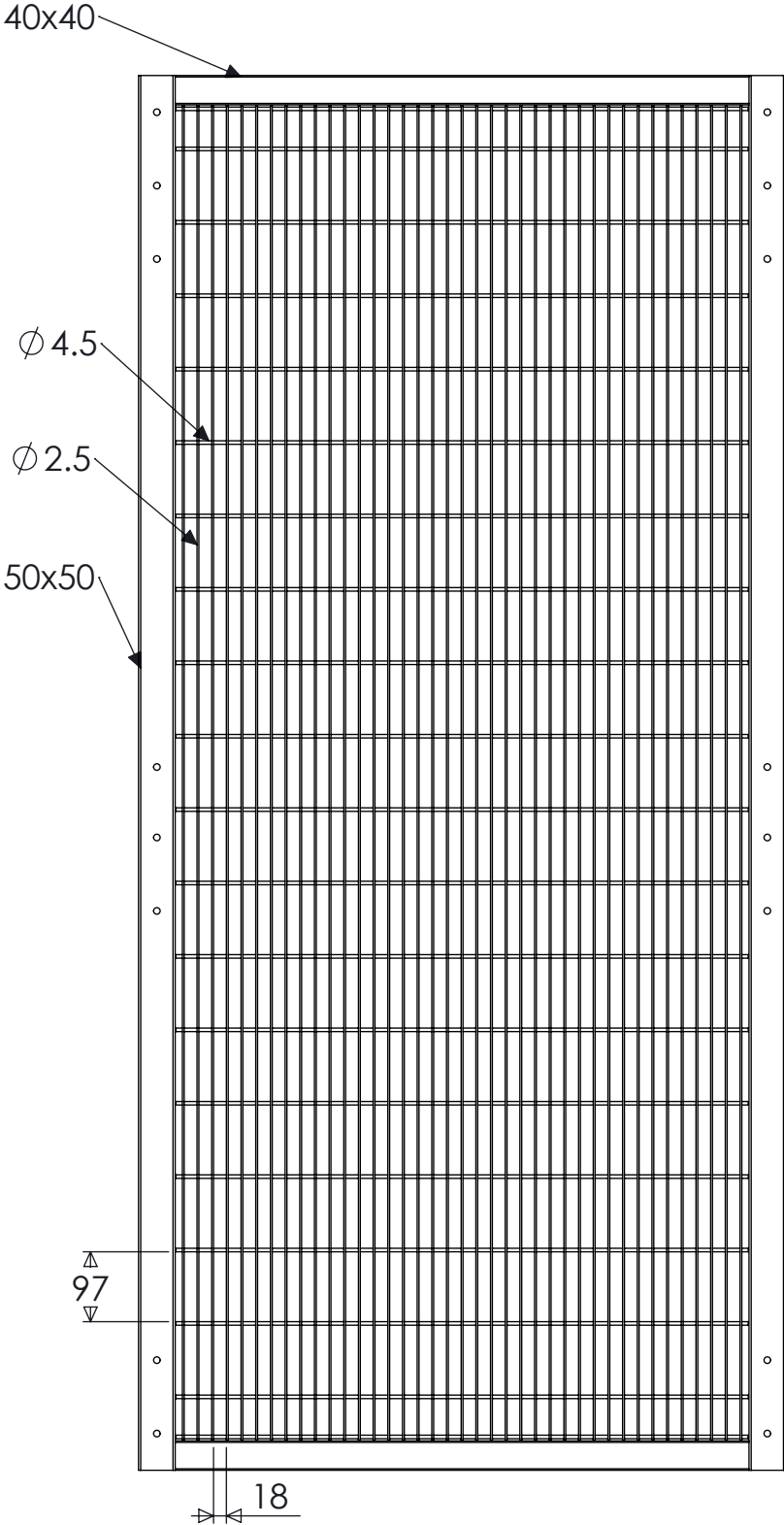
A
200
300
400
500
600
700
800
900
1000
1100
1200
1500





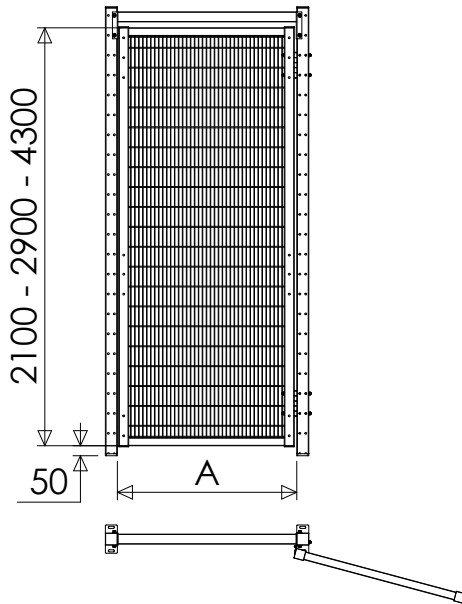
Material door

Material Tür



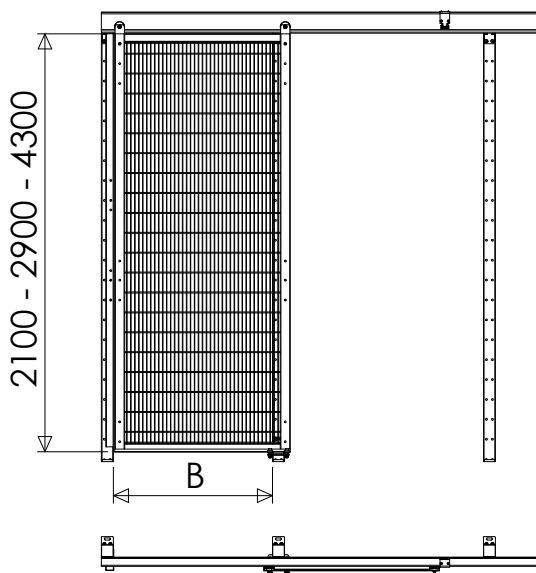
Door options

Türalternativen



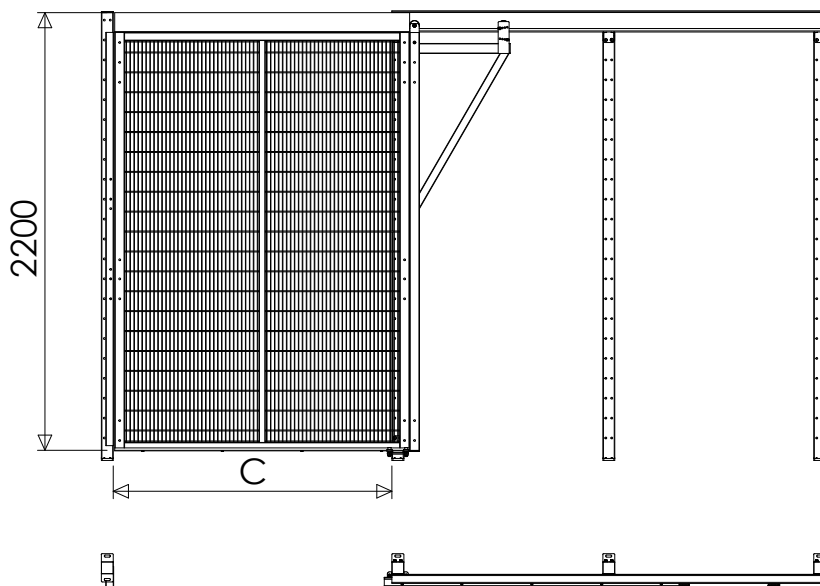
Flügeltür

A
700
800
900
1000
1100
1200
1500



Einfach-Hängeschiebetür
mit oberer Laufschiene

B
800
1100
1400
2300
2900



Doppel-Hängeschiebetür
einseitige Öffnung

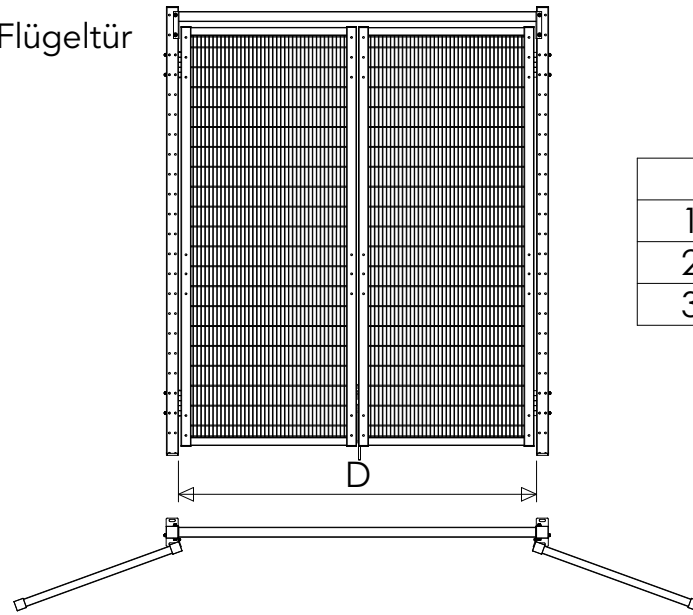
C
800
1400

Freie Durchfahrt,
keine Begrenzung durch
Laufschiene

Door options

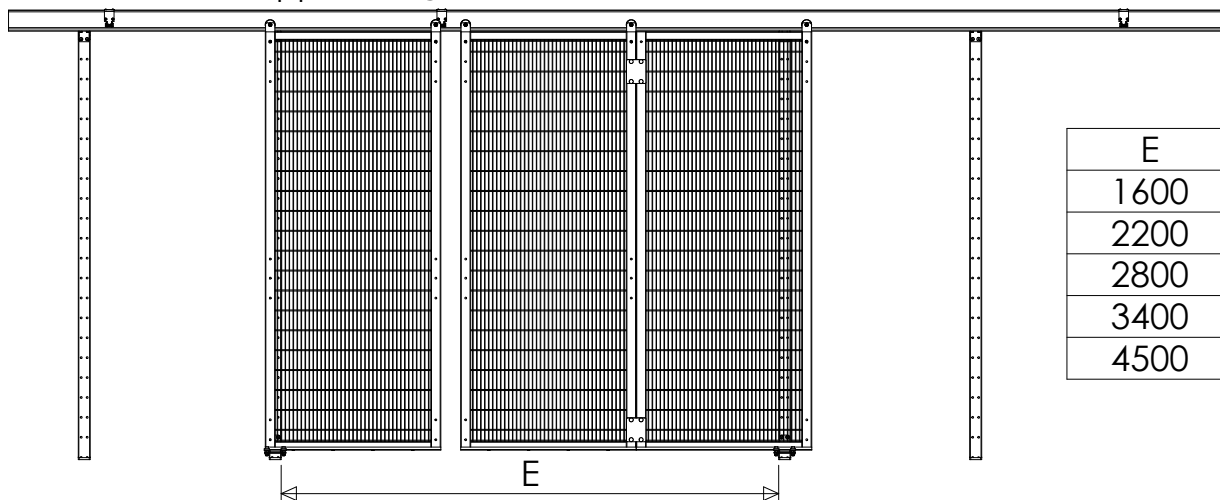
Türalternativen

Doppel-Flügeltür

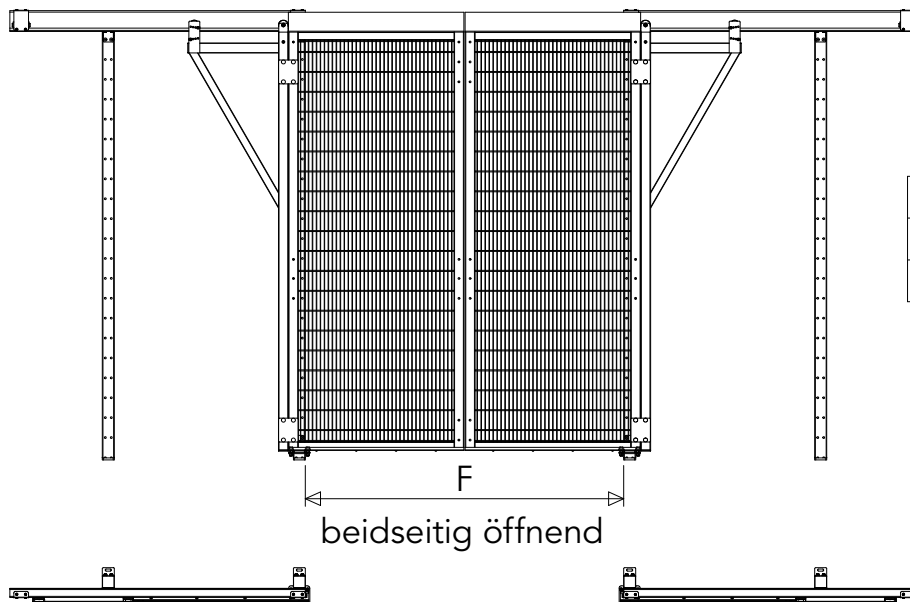


D
1800
2400
3000

Doppel-Hängeschiebetore mit oberer Laufschiene



E
1600
2200
2800
3400
4500



F
2200
2800

beidseitig öffnend

Locking options

Schlossalternativen

Cylinder locked door
Fits both hinged- and sliding doors

Tür mit Zylinderschloss
Erhältlich als Schwenk- und Schiebetür



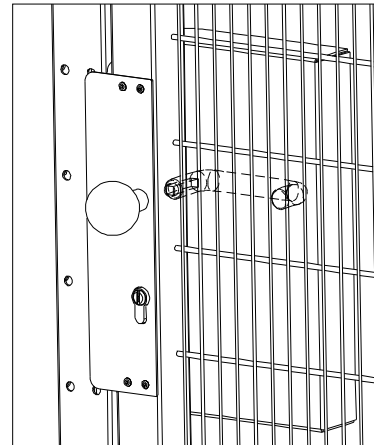
Pad lock plates
Fits both hinged- and sliding doors

Tür mit Vorhängeschloss
Erhältlich als Schwenk- und Schiebetür



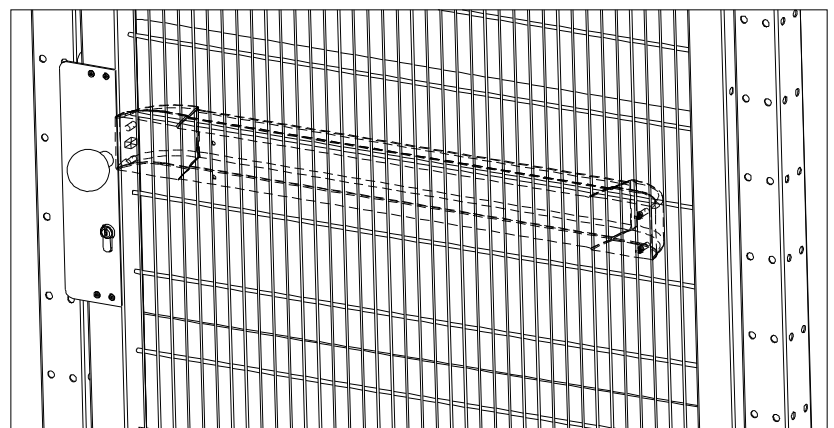
Door with approved panic lock. A door with panic lock can always be opened from the inside even when it is locked. Not working for sliding doors

Fluchttür mit zugelassenem Panikschloss. Diese Tür kann von innen auch geöffnet werden, wenn diese abgeschlossen ist. Funktioniert nicht für Schiebetüren.



Door with approved panic bar and lock. A door with panic bar can always be opened from the inside even if it is locked. Not working for sliding doors

Fluchttür mit zugelassener Druckstange. Diese Tür kann von innen auch geöffnet werden, wenn diese abgeschlossen ist. Funktioniert nicht für Schiebetüren



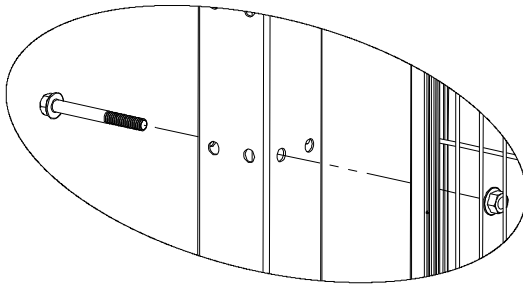
Locking options

Schlossalternativen

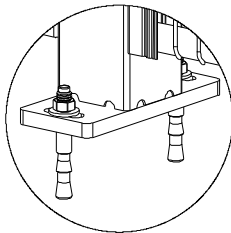


Walls

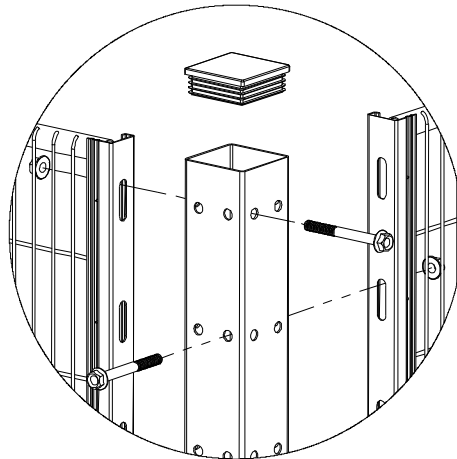
Wände



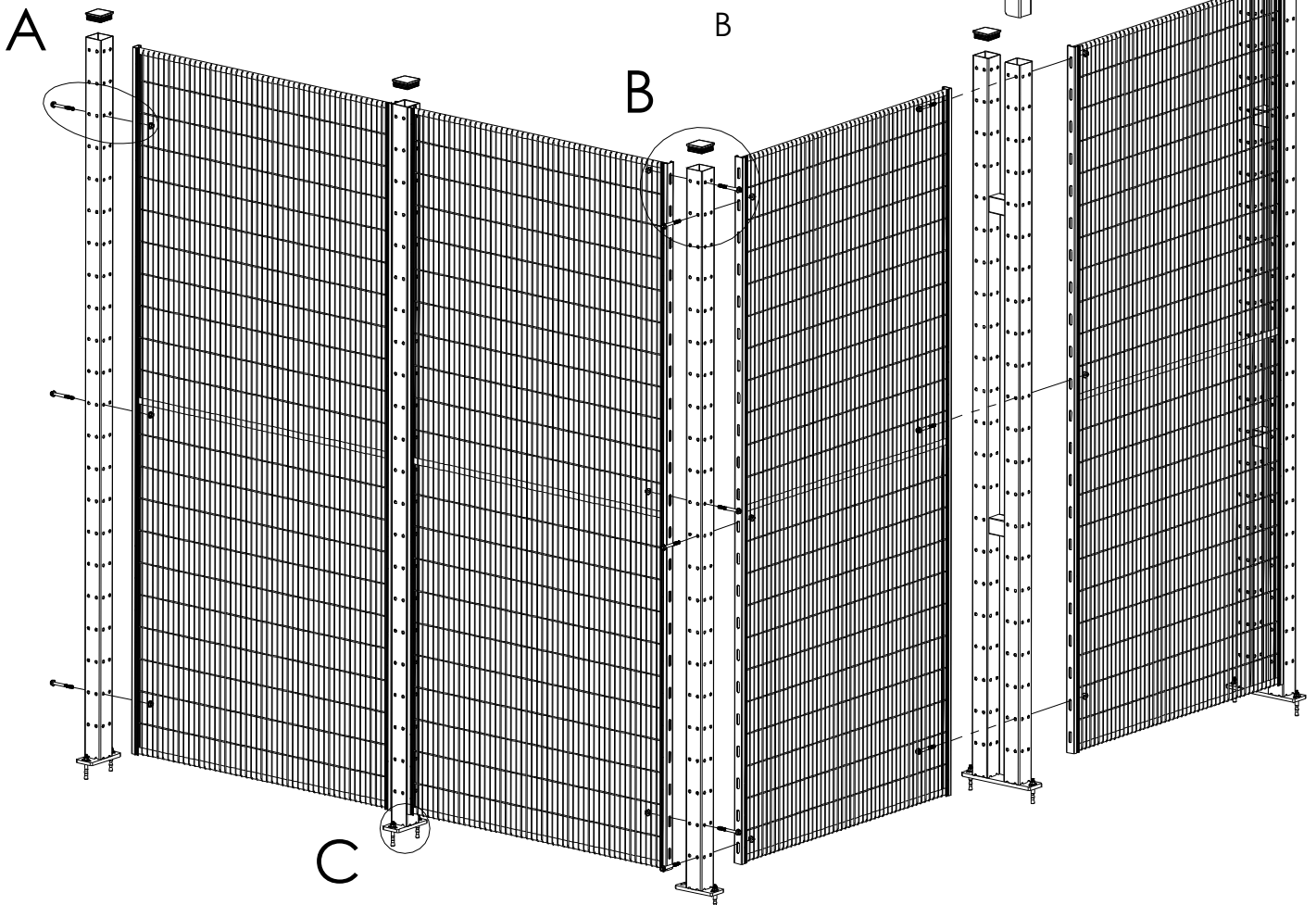
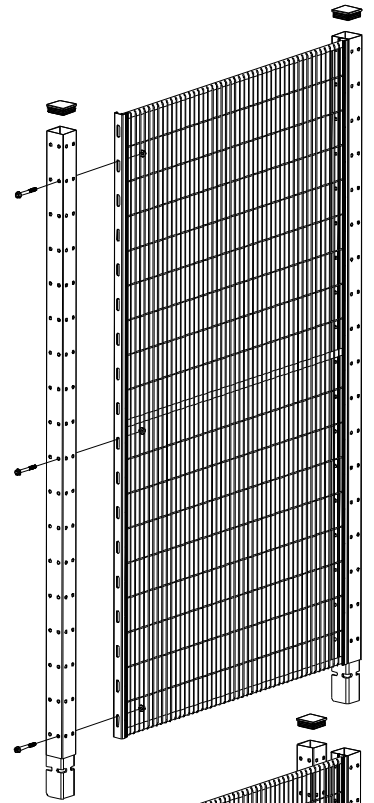
A



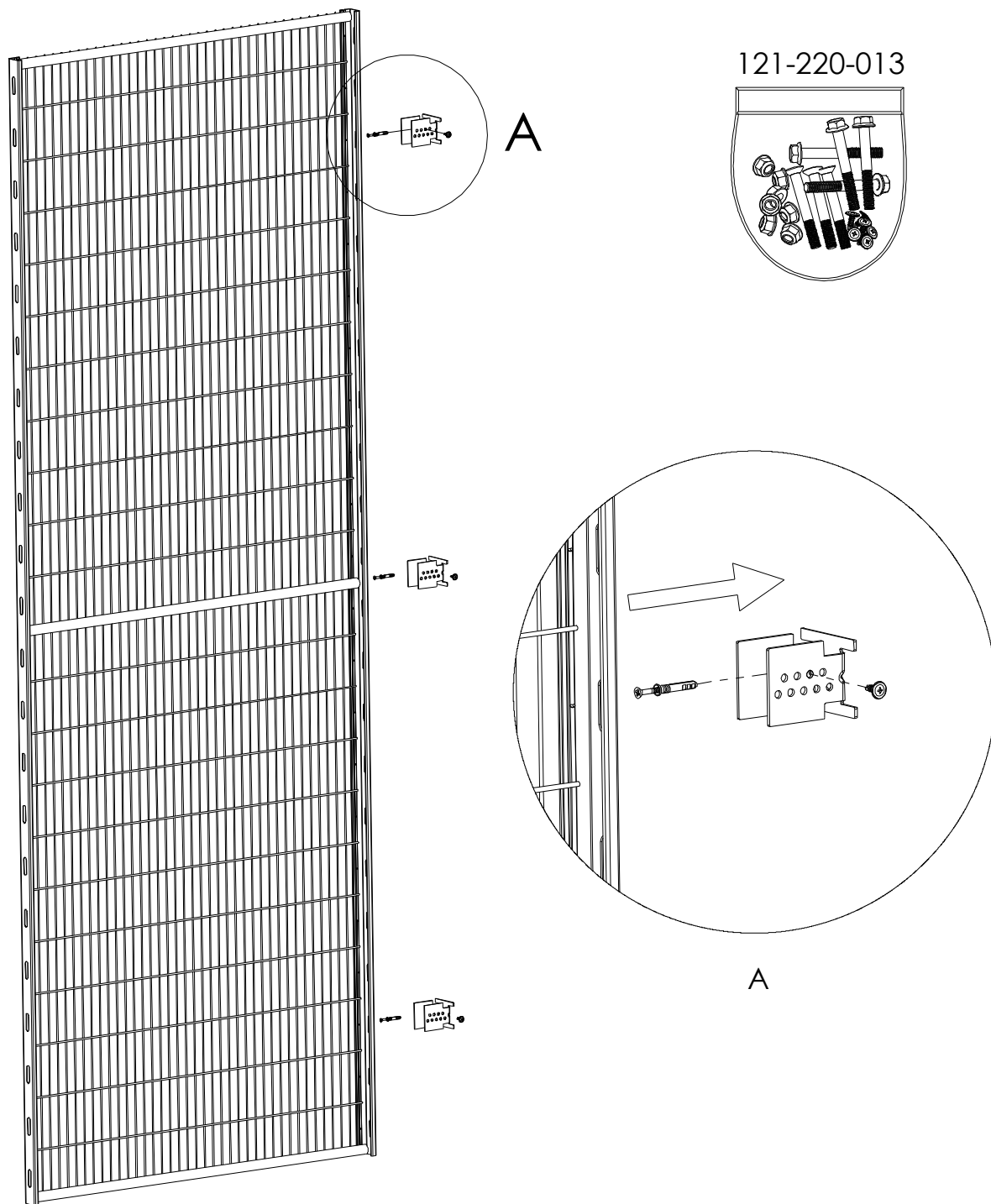
C



B

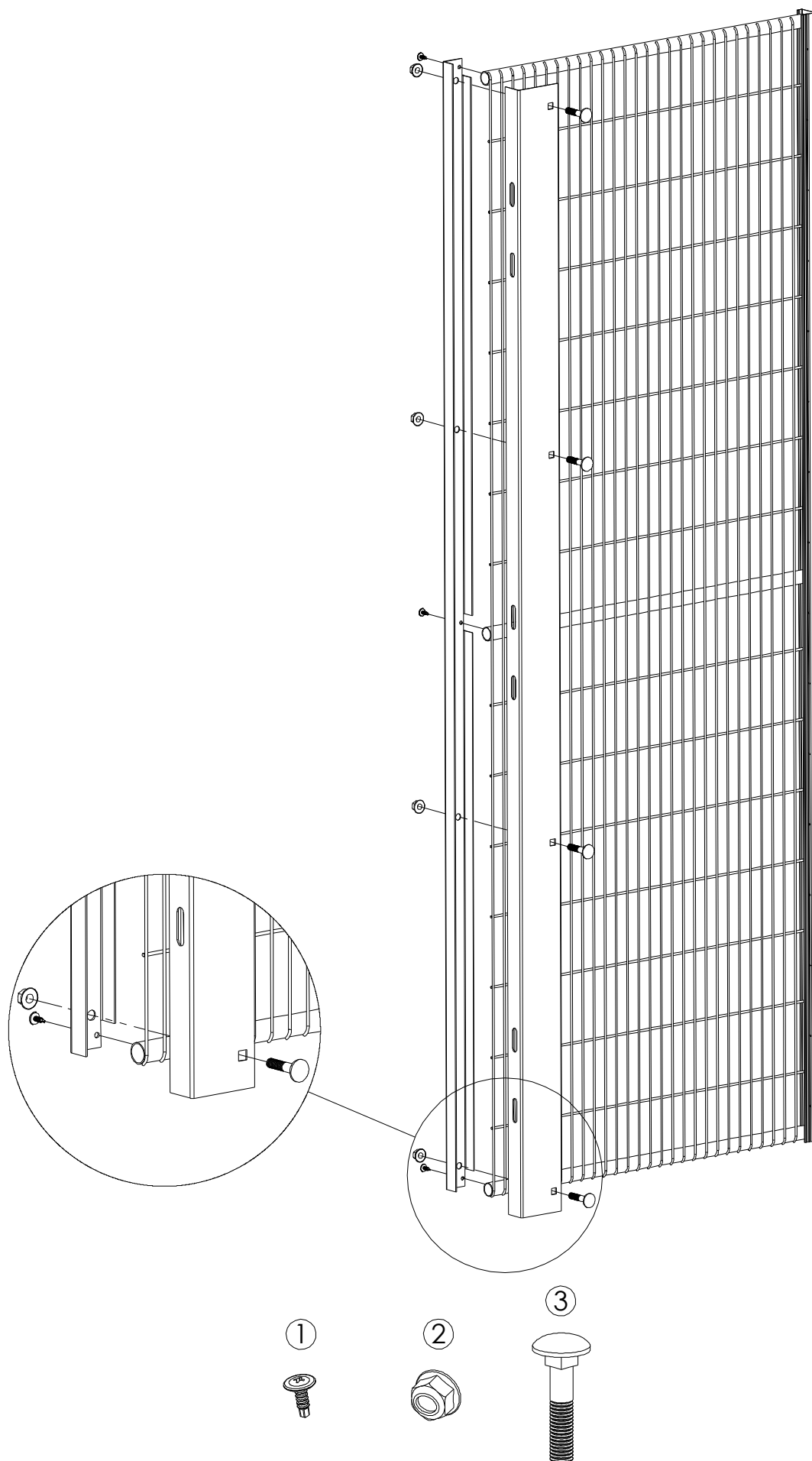


C



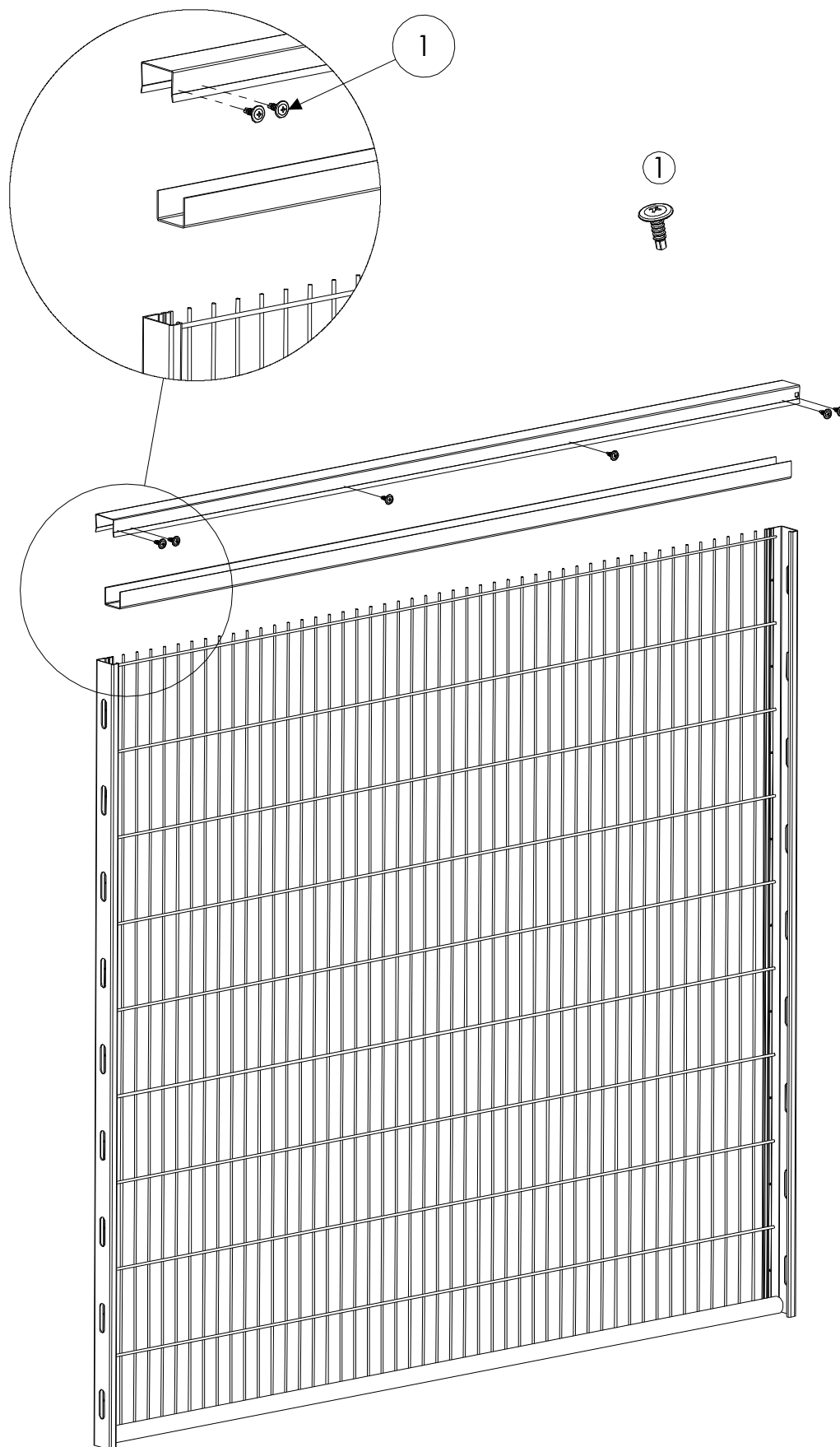
Vertical cutting

Vertikal kappen



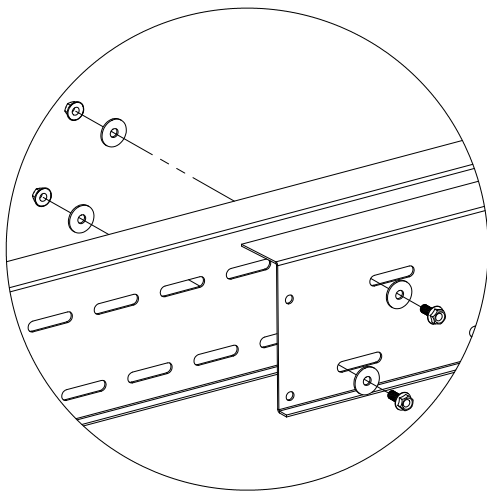
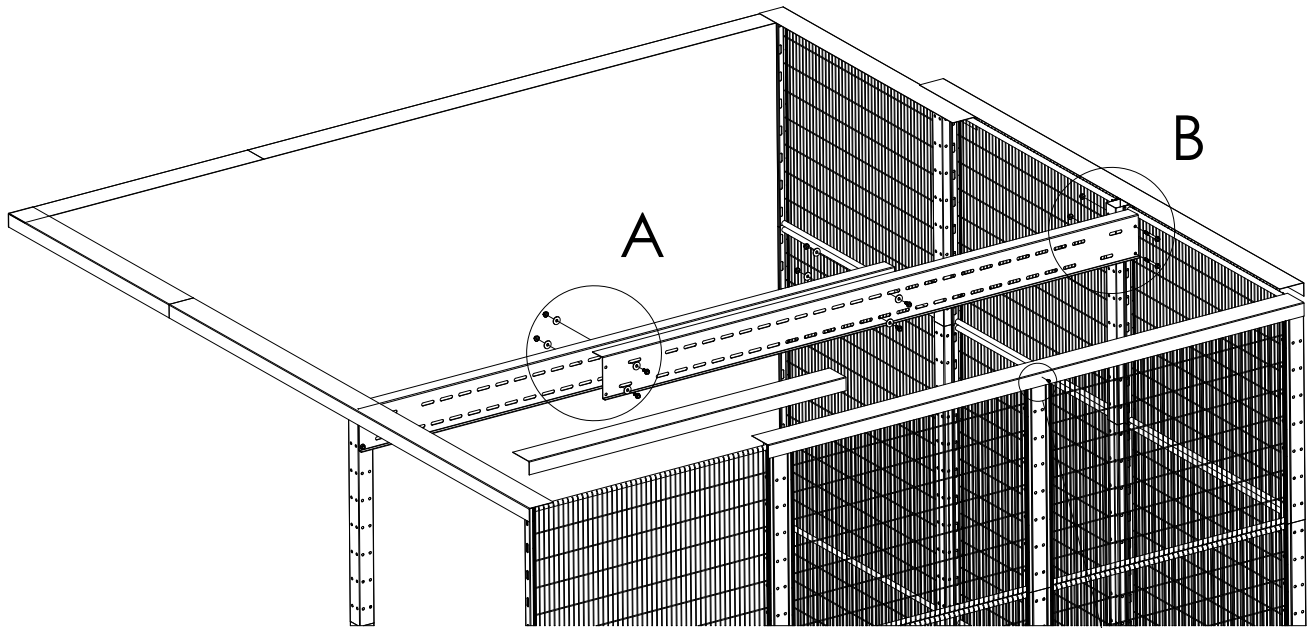
Horizontal cutting

Horizontal kappen

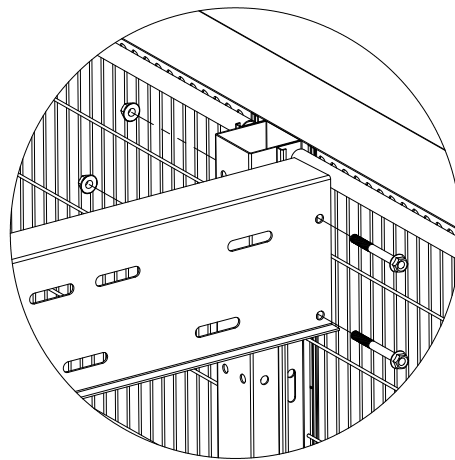


Roof

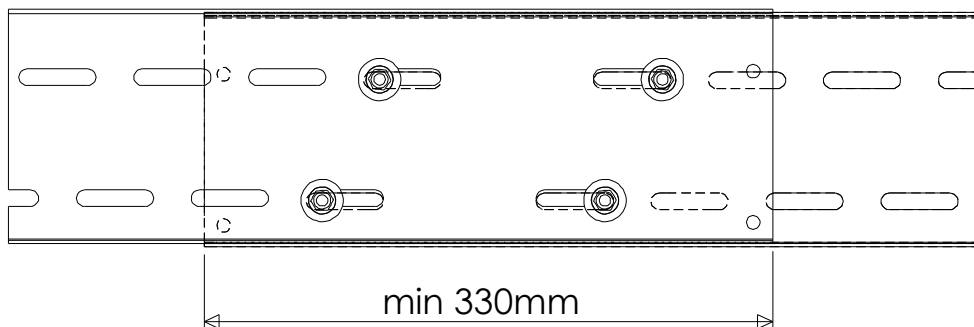
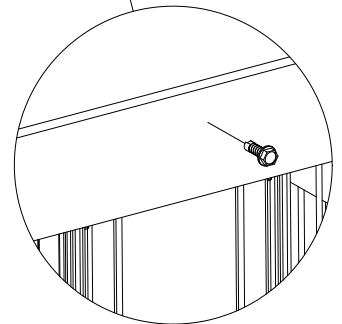
Dach



A

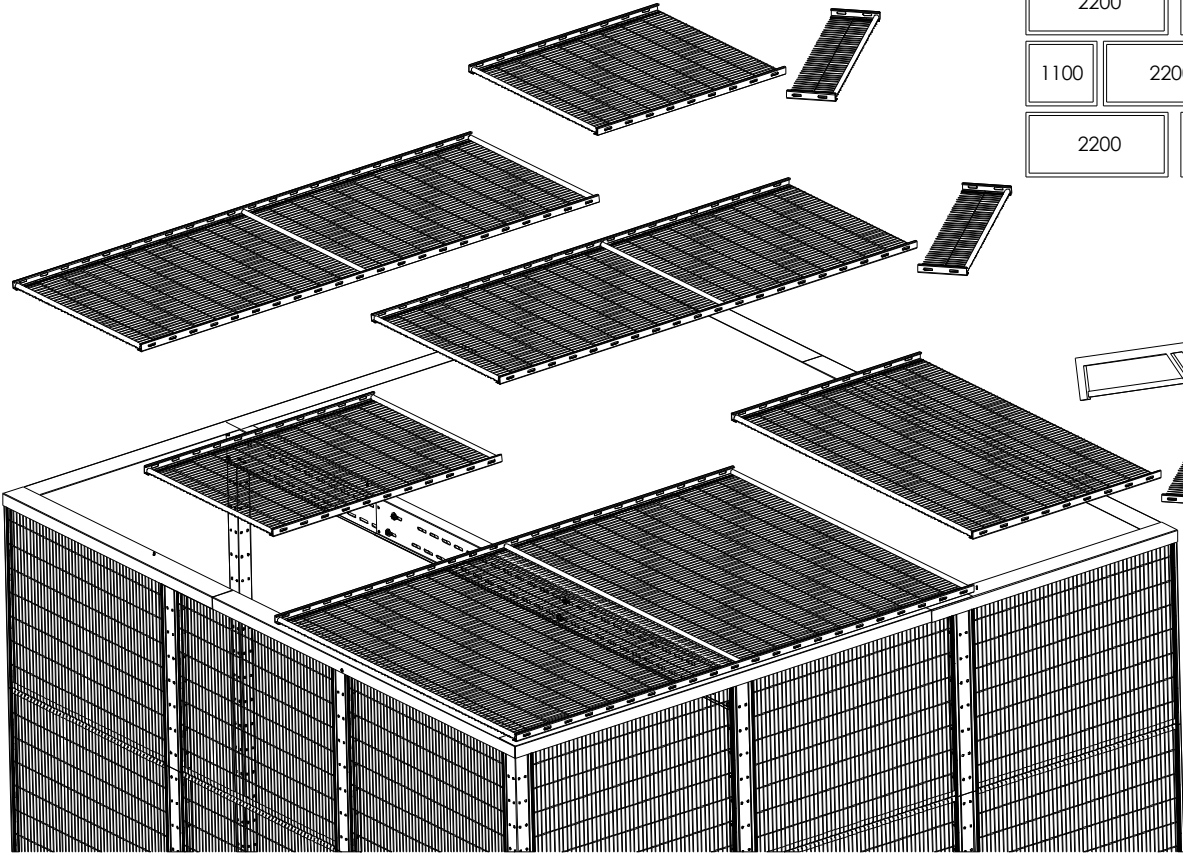


B

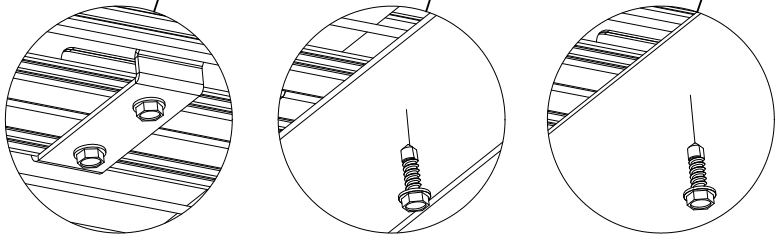
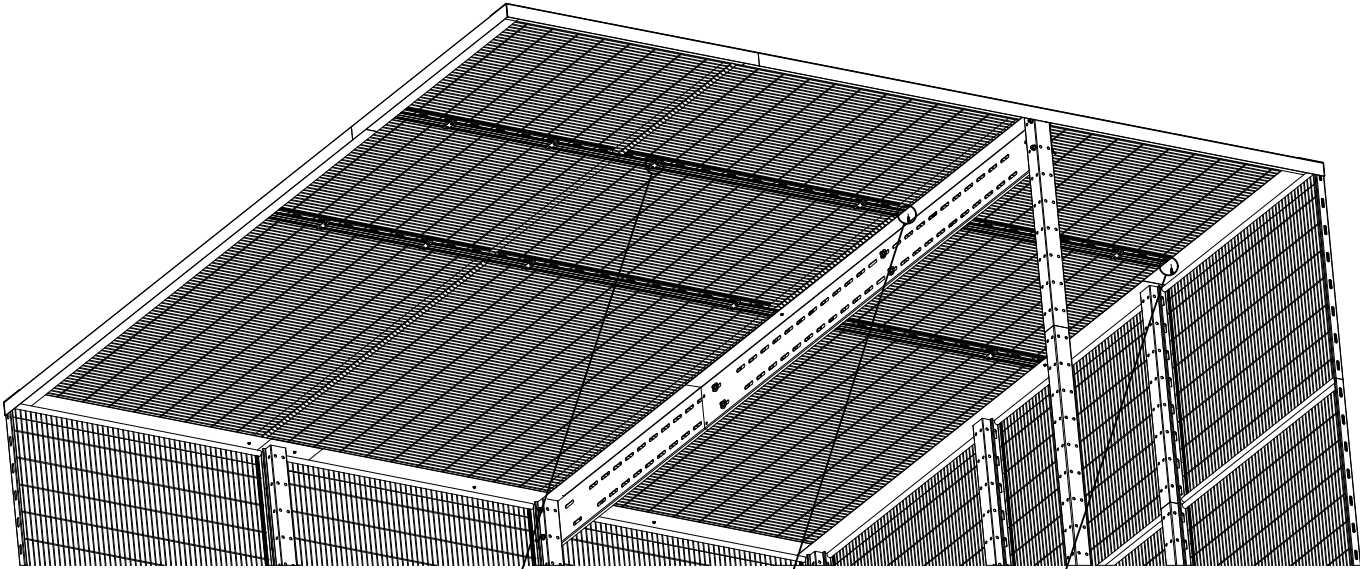


Roof

Dach



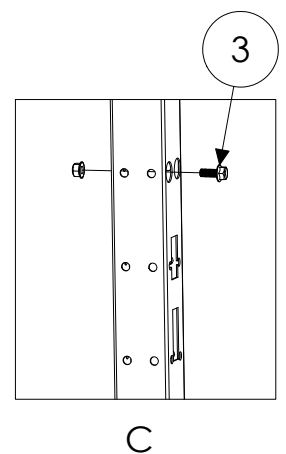
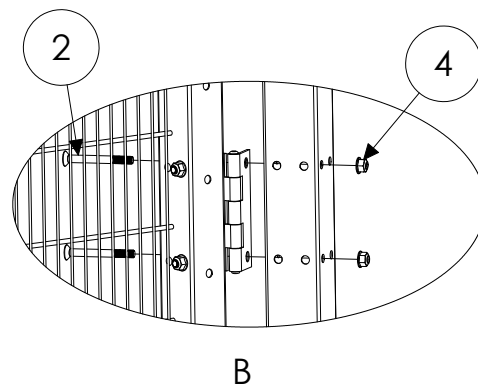
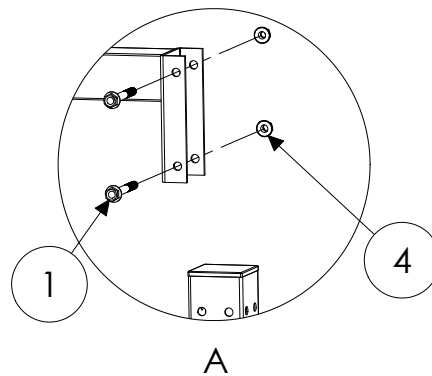
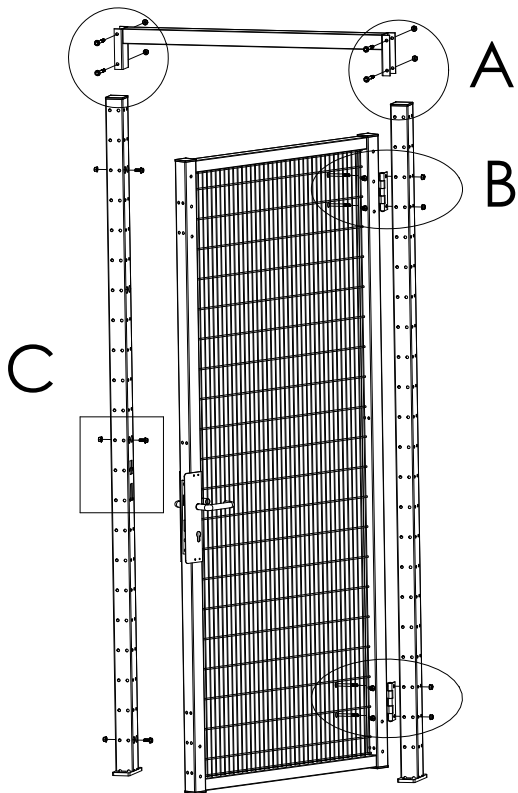
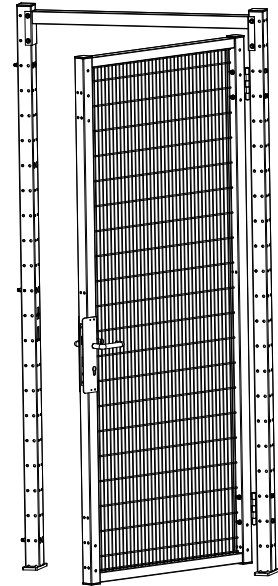
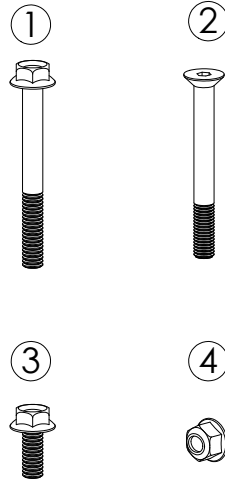
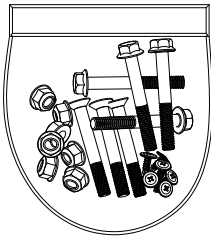
2200	2200	
1100	2200	1100
2200	2200	



Single hinged door

Einzelschwenktür

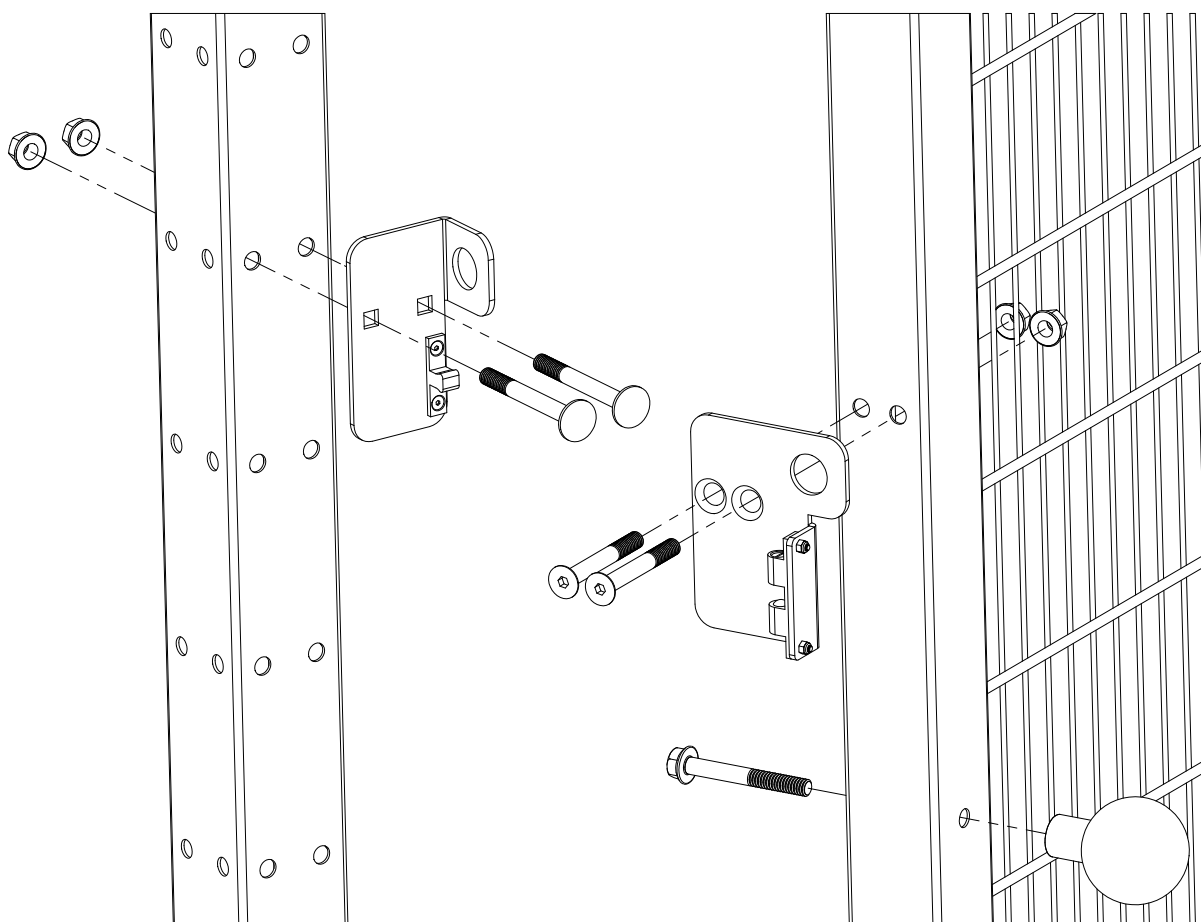
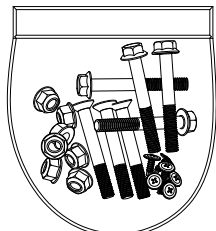
223-220-001



Padlock plates for single hinged door

Vorhängeschloss, Befestigung für
Einzelschwenktür

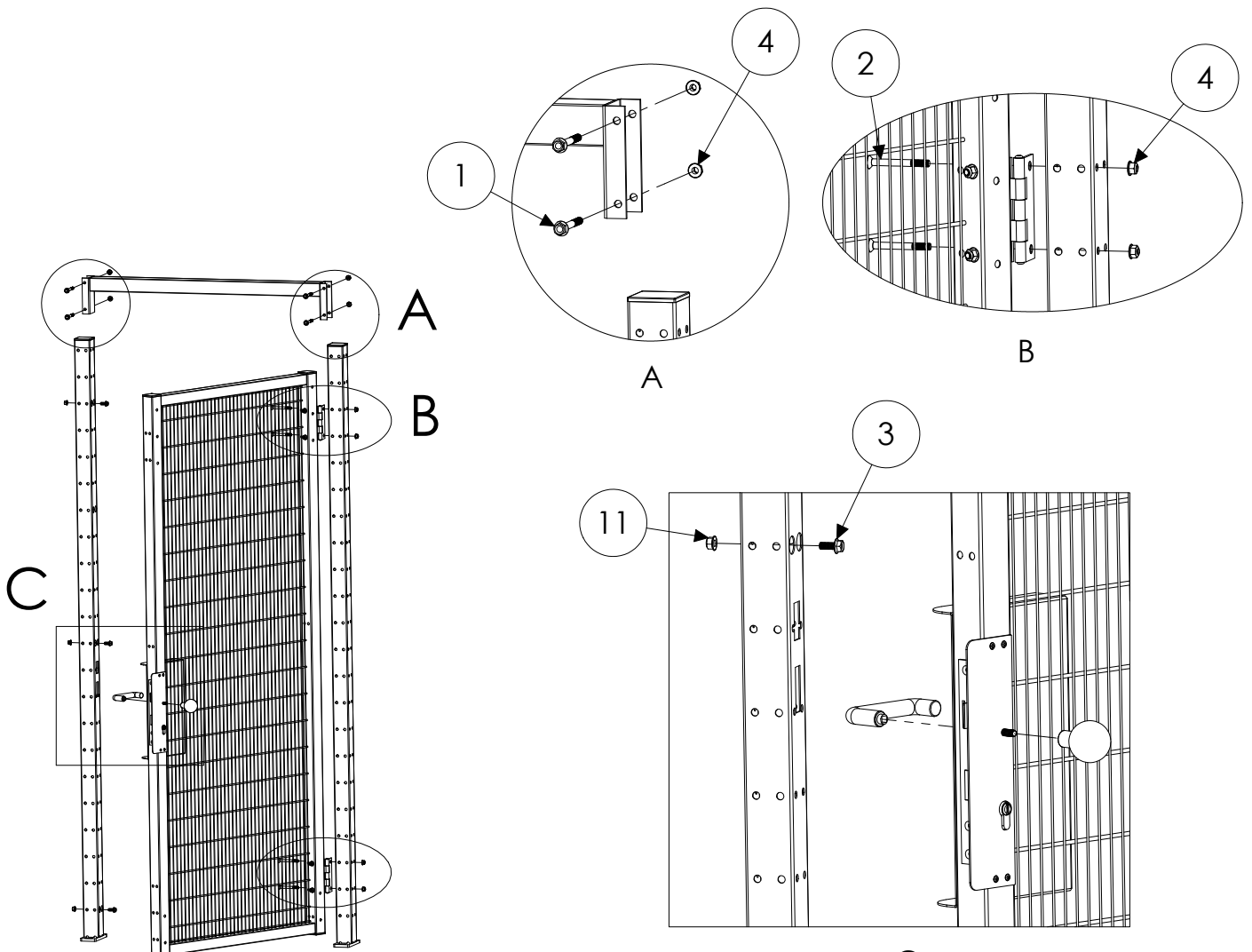
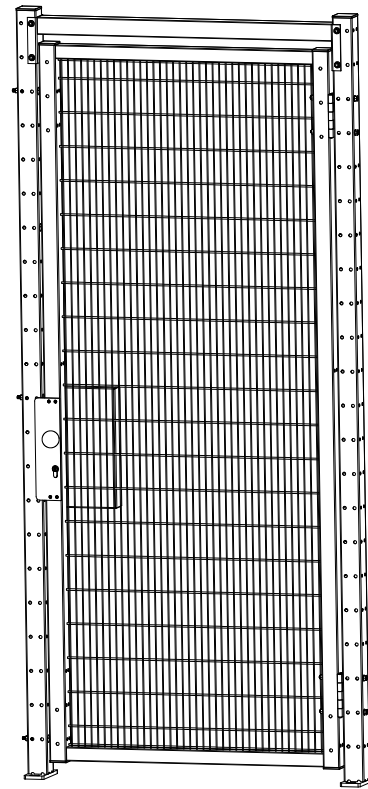
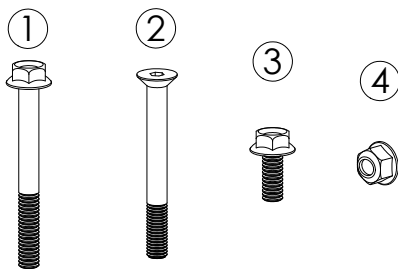
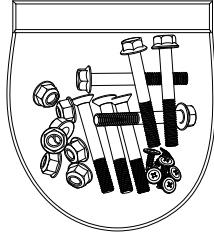
140-100-110



Escape door

Fluchttür

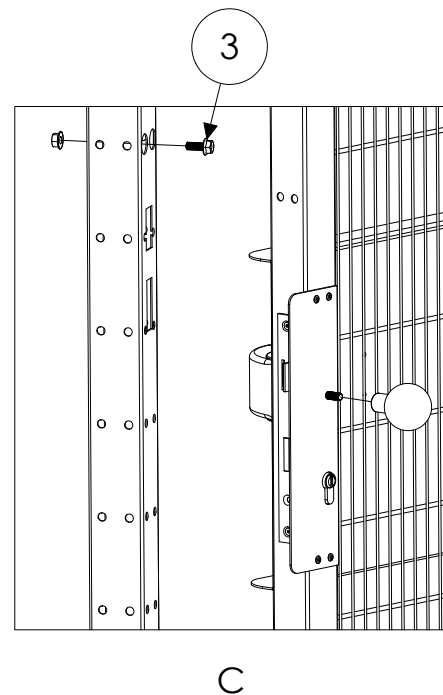
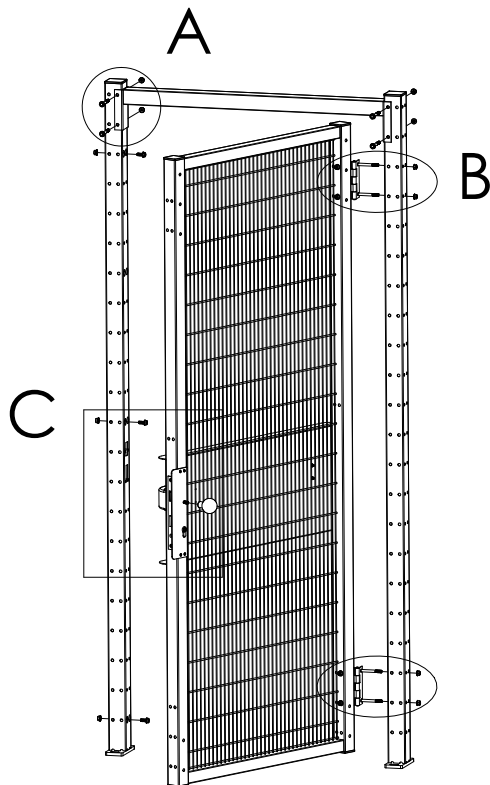
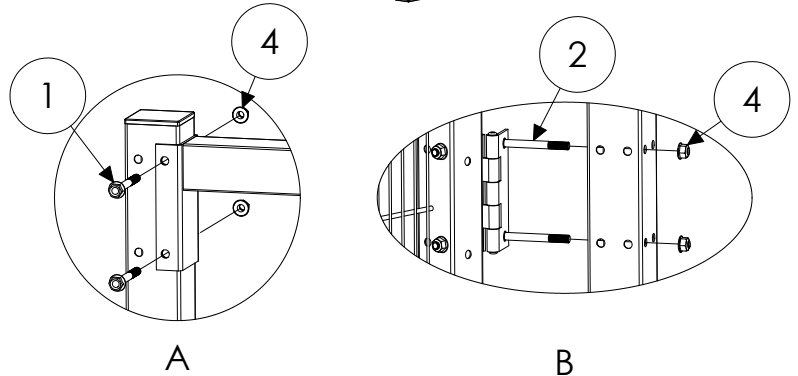
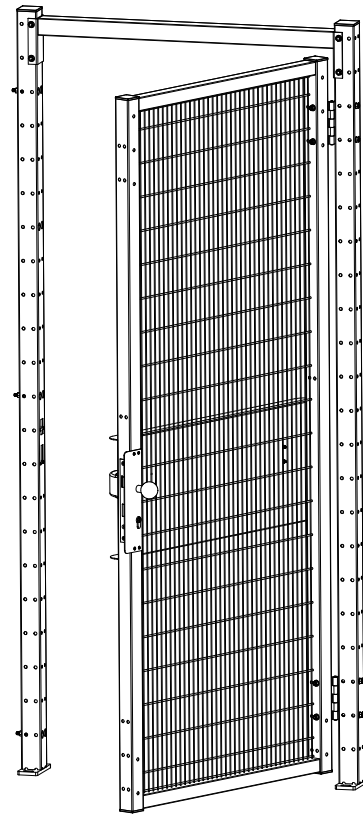
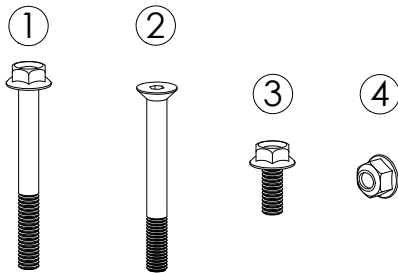
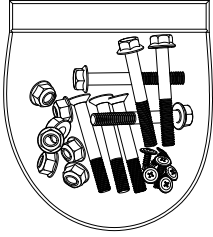
223-220-002



Escape door with push bar

Fluchttür mit Druckstange

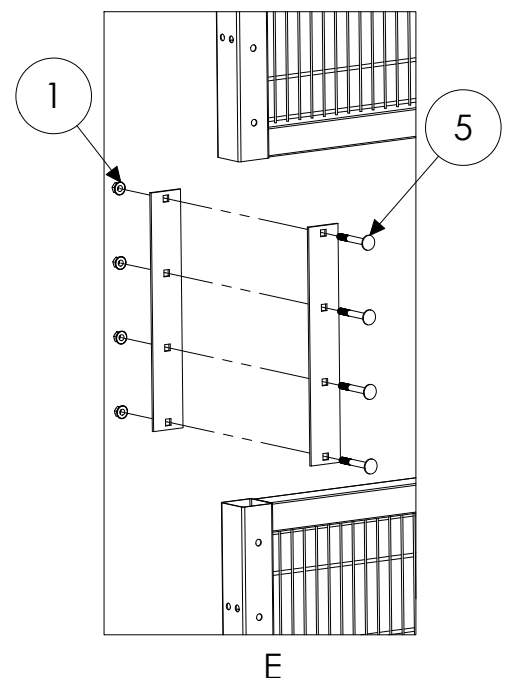
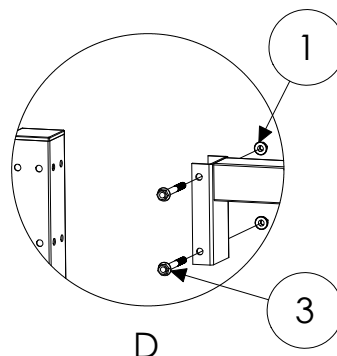
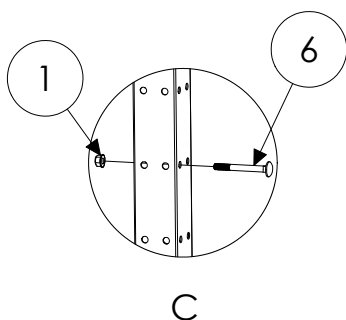
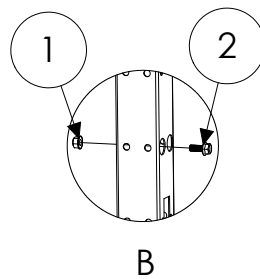
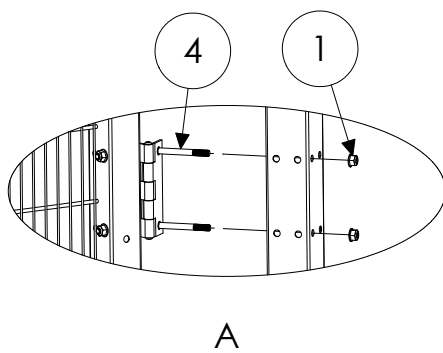
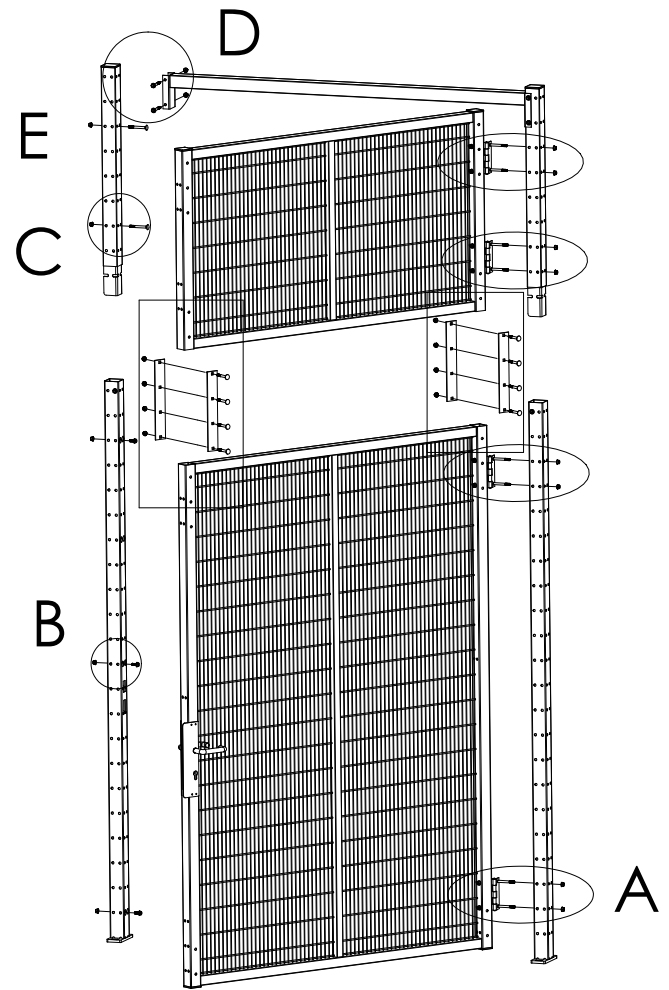
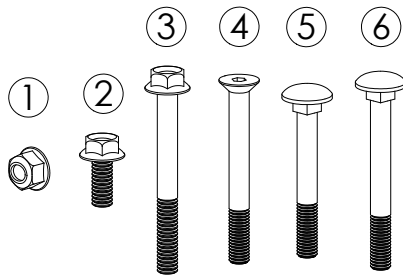
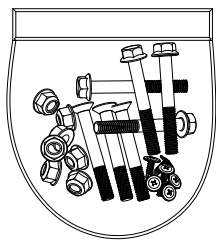
223-220-004



Single hinged door H 3000-4400

Einzelschwenktür H 3000-4400

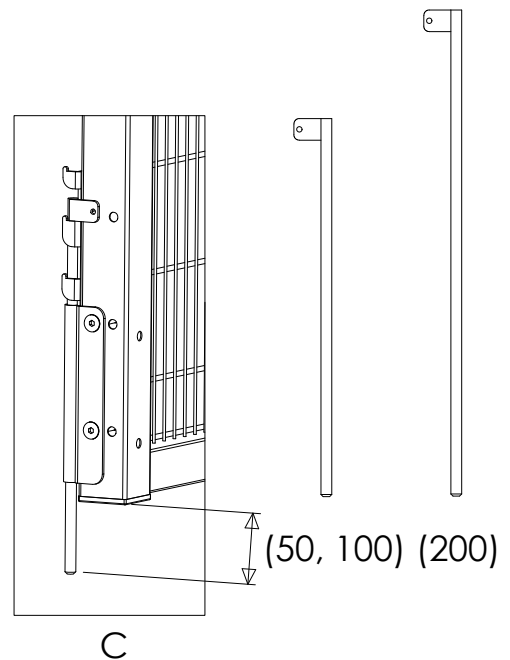
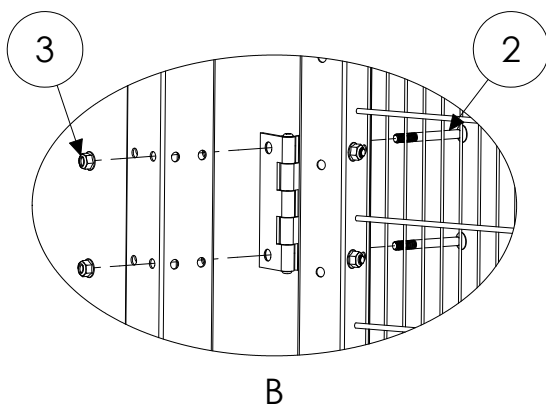
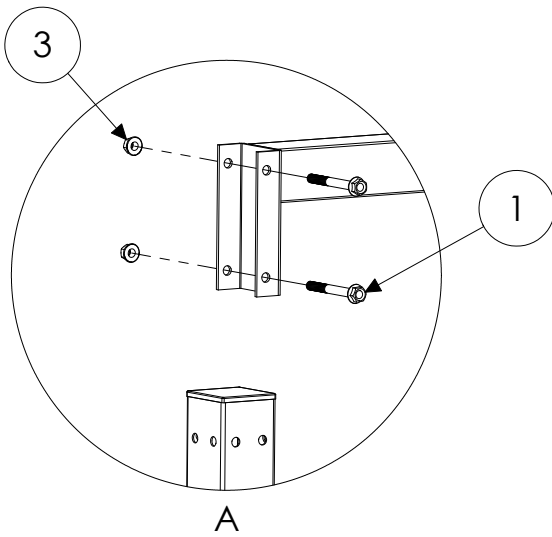
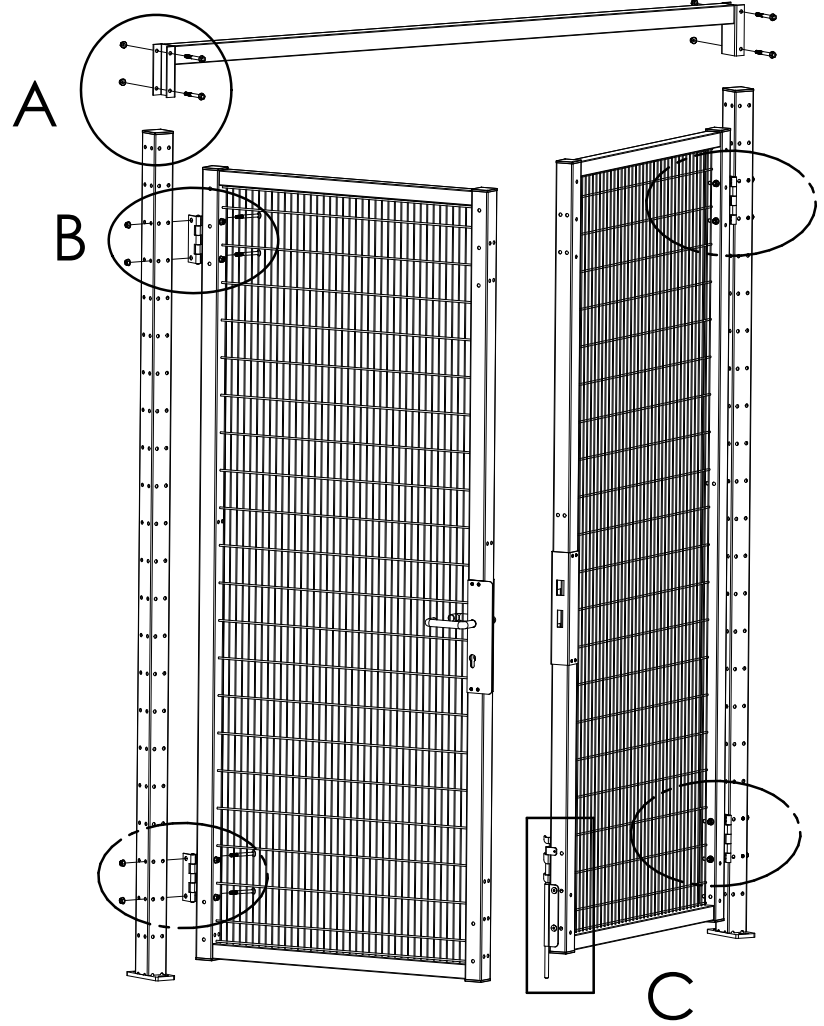
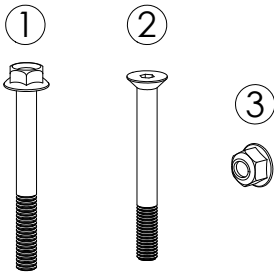
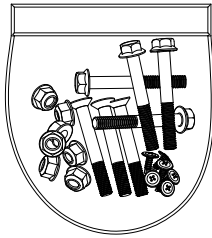
223-440-002



Double hinged door

Doppelschwenktür

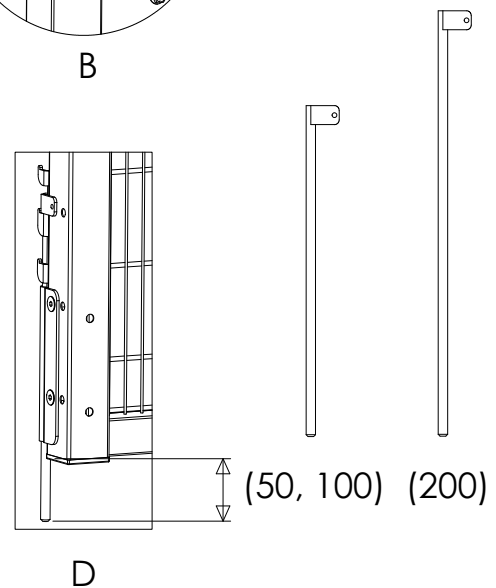
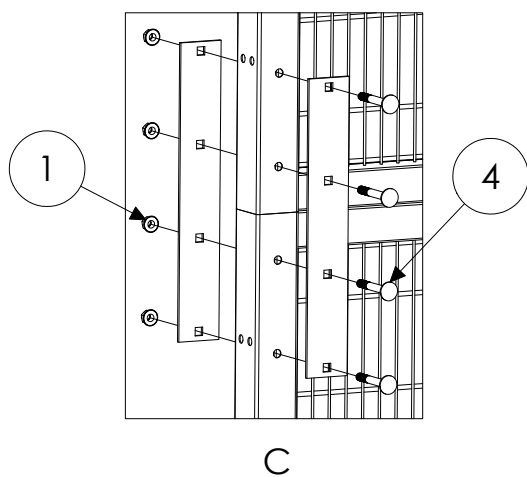
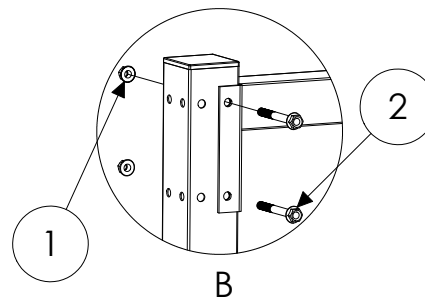
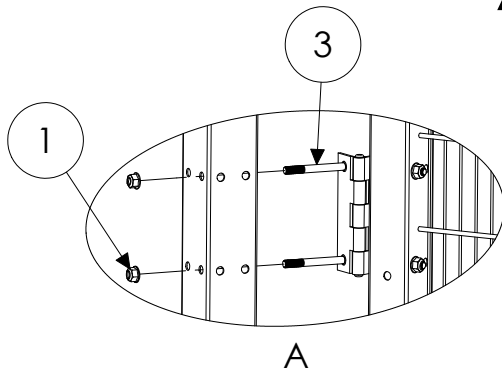
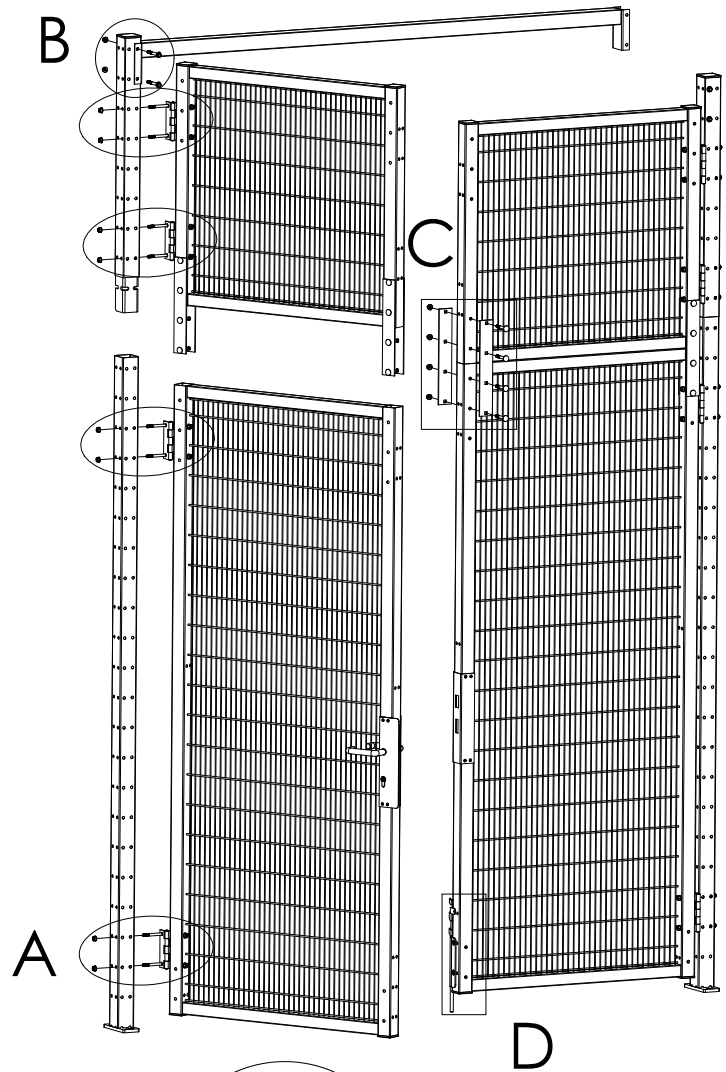
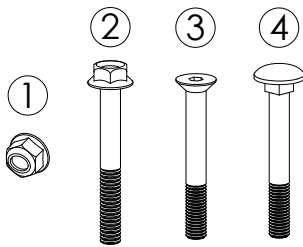
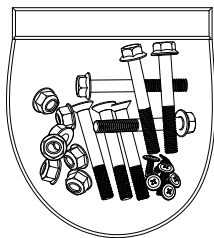
223-220-003



Double hinged door H 3000-4400

Doppelschwenktür H 3000-4400

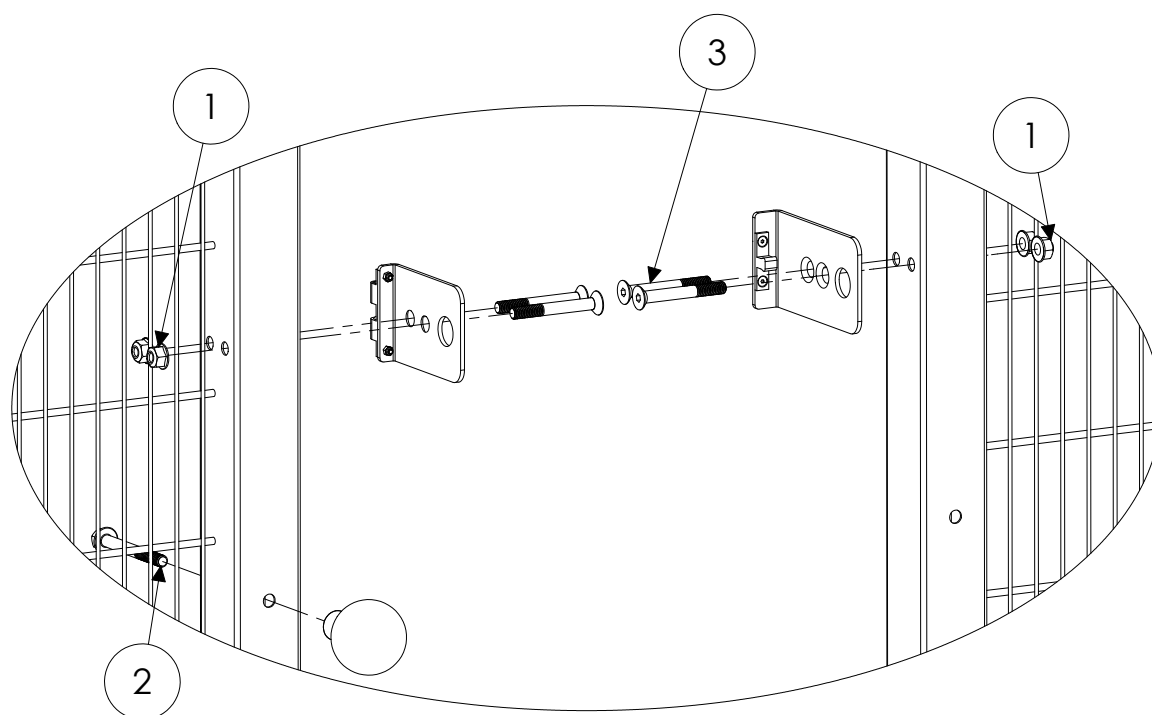
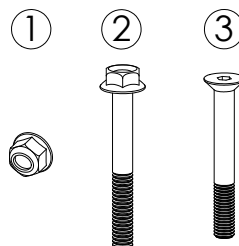
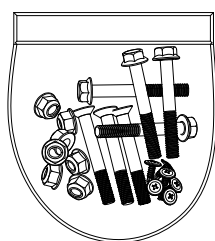
223-440-004



Padlock plates for double hinged door

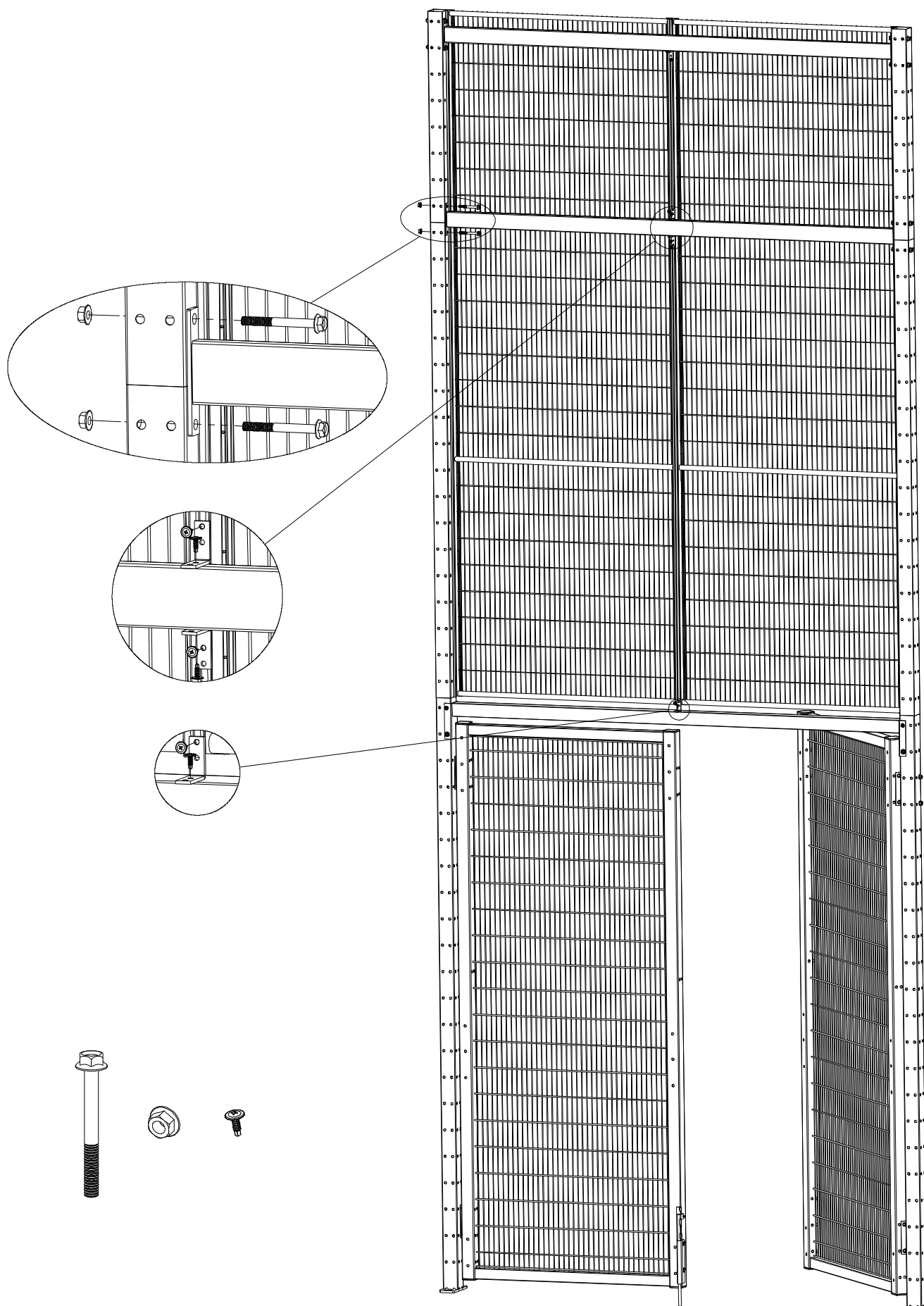
Vorhängeschloss, Befestigung für Doppelschwenktür

140-100-111



Door support W 3000

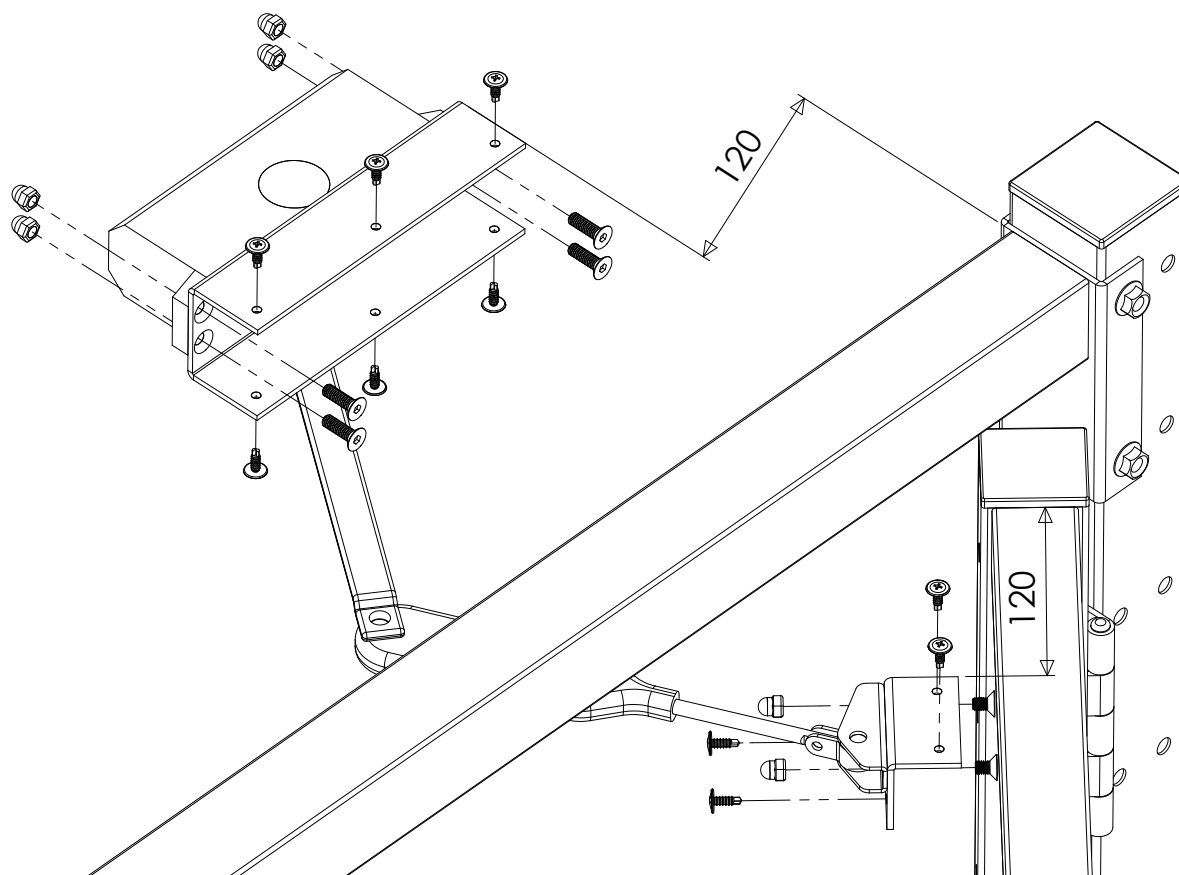
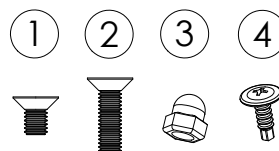
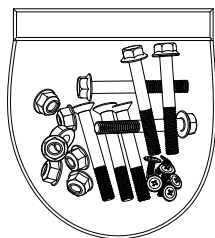
Türverstärkung B 3000



Door closer

Türschließer

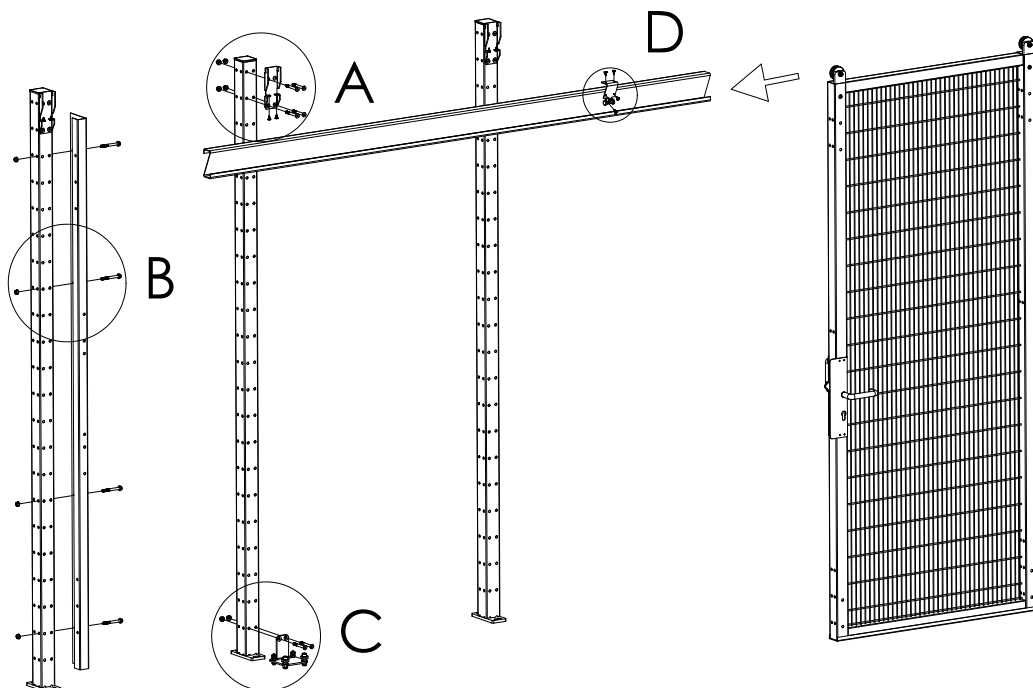
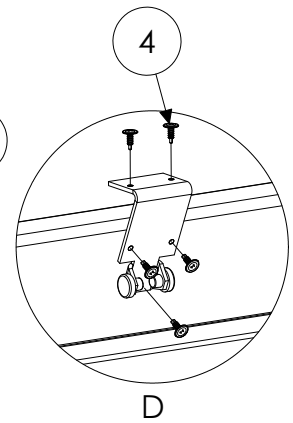
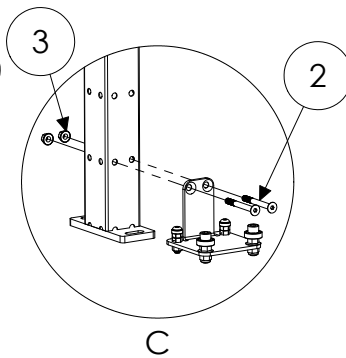
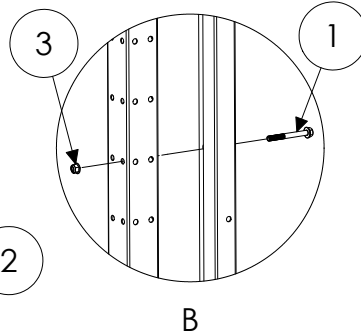
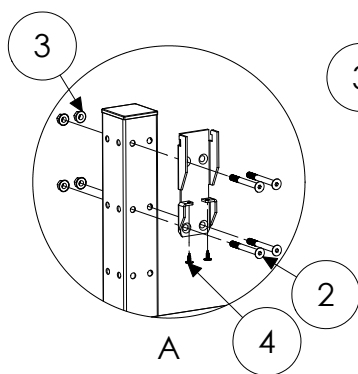
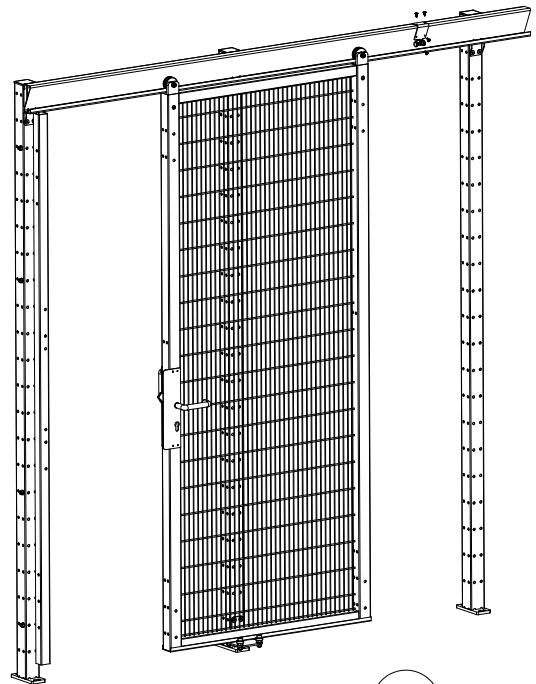
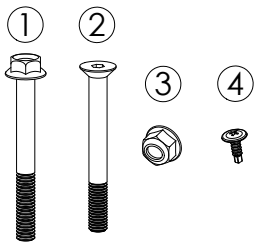
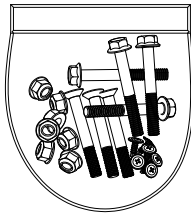
121-220-012



Single sliding door W 800-1400

Einzeltür mit Laufschiene B 800-1400

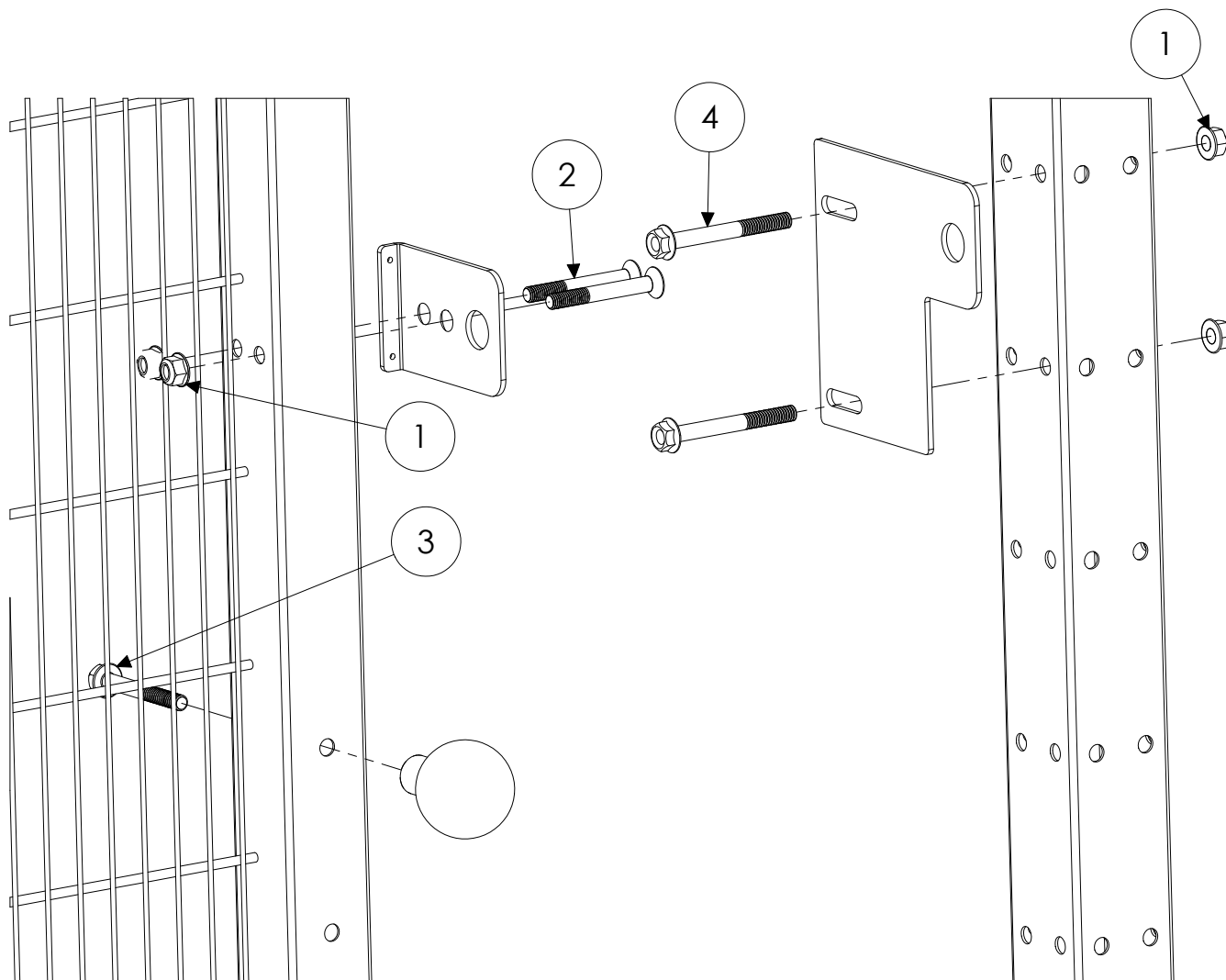
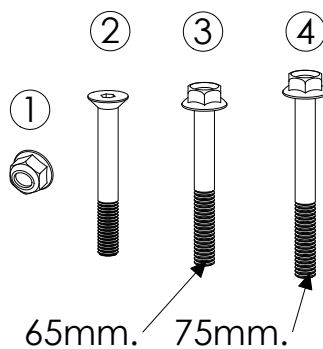
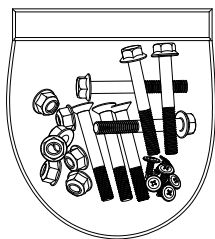
243-220-005



Padlock plates for single sliding door

Vorhängeschloss, Befestigung für Einzelschiebetür

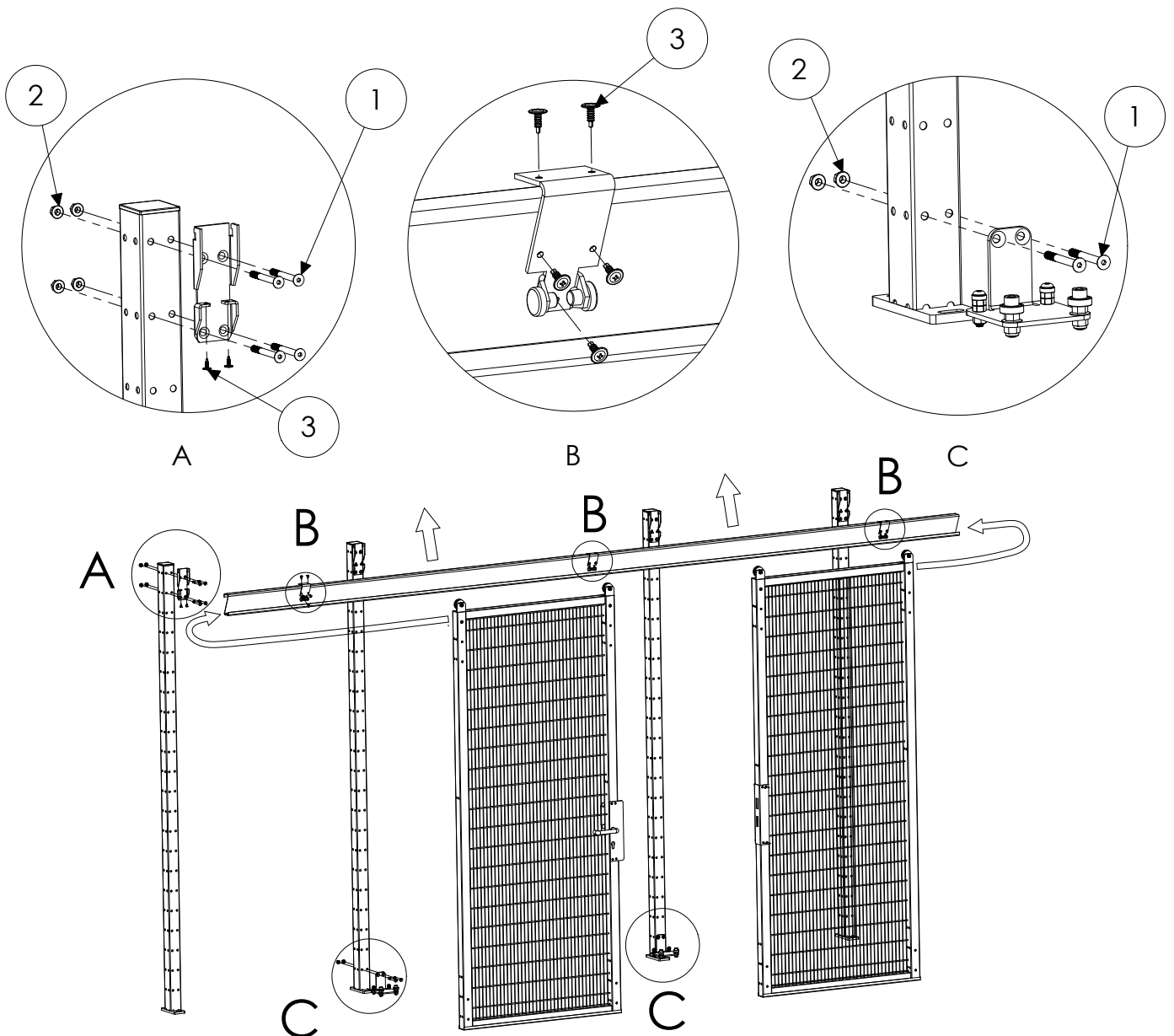
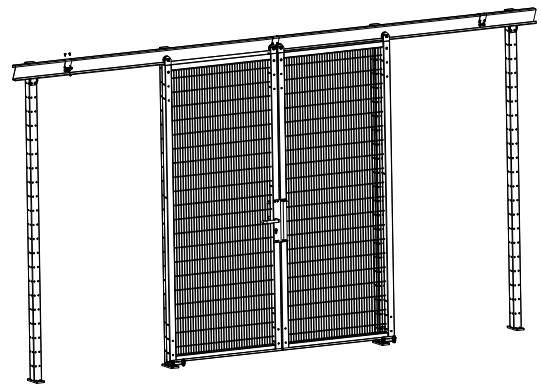
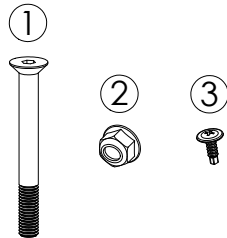
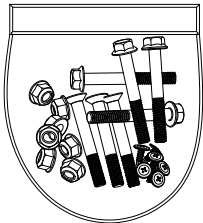
140-100-112



Double sliding door W 1600-2800

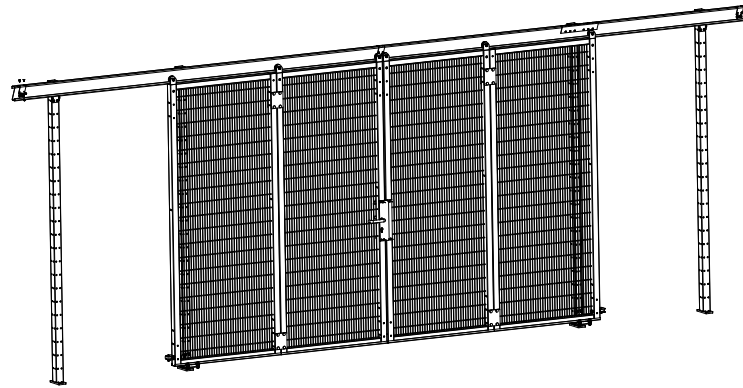
Doppeltür mit Laufschiene B 1600-2800

243-220-009

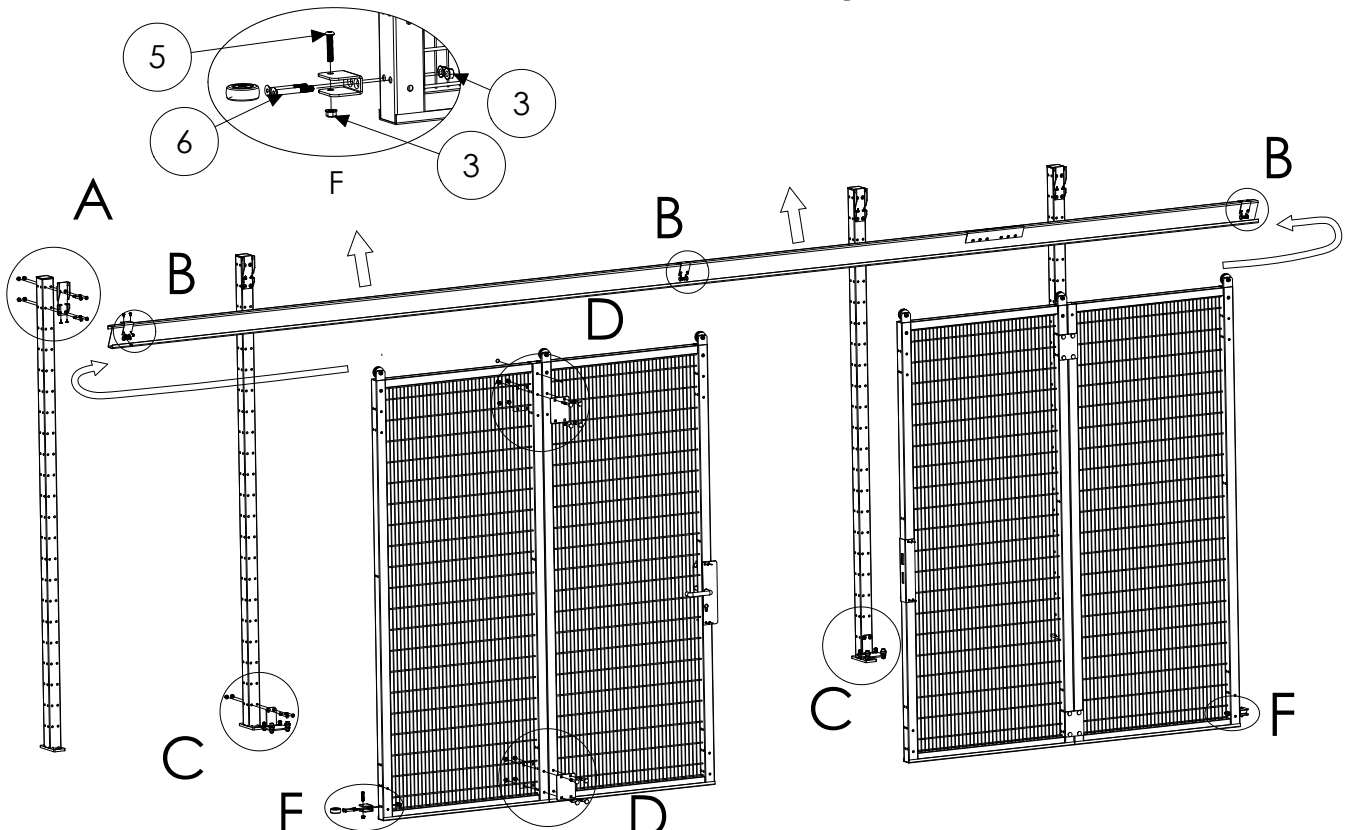
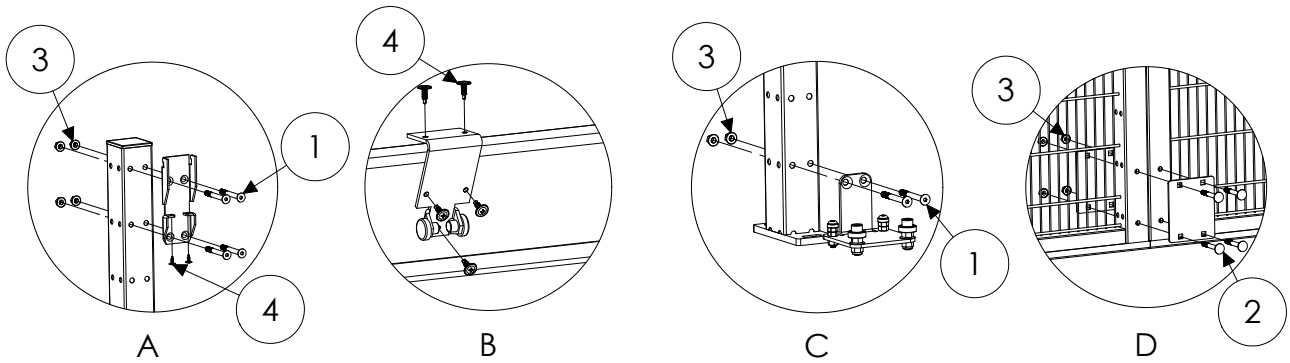
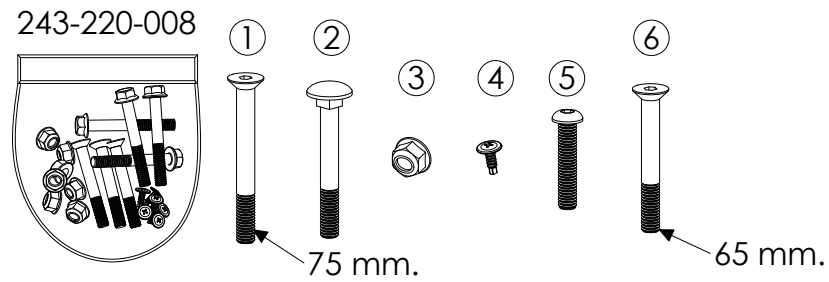


Double sliding door W 3000-4500

Doppeltür mit Laufschiene B 3000-4500



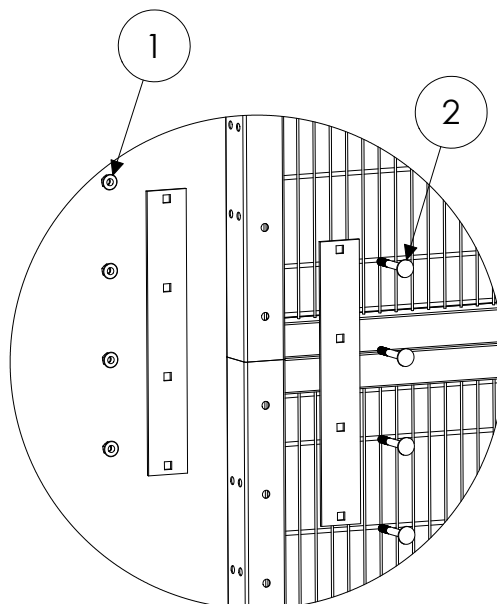
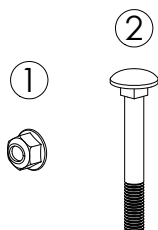
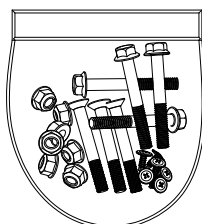
243-220-008



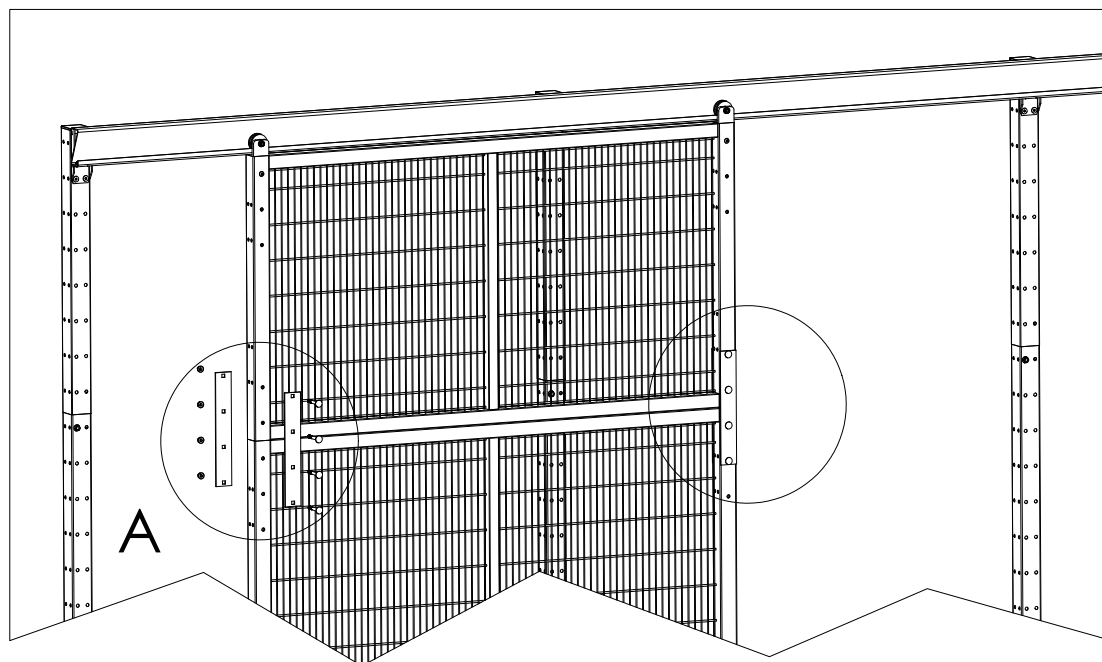
Sliding door H > 2200

Tür mit Laufschiene H > 2200

243-440-007



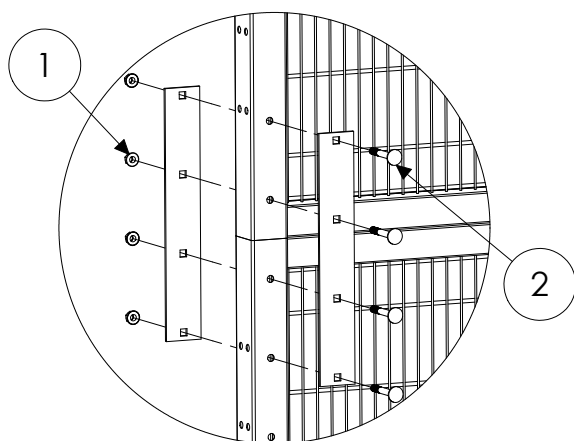
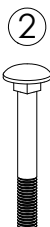
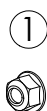
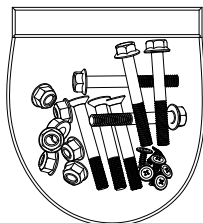
A



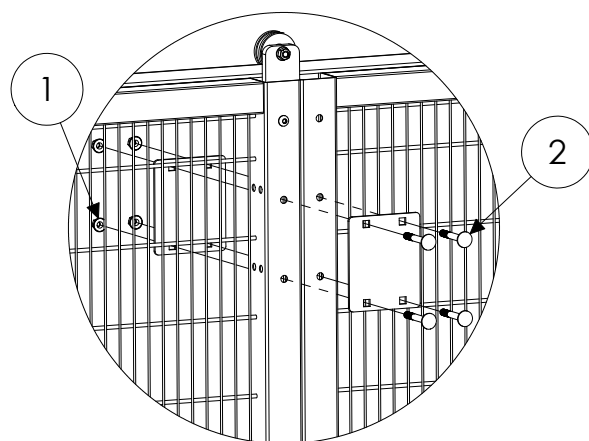
Double sliding door H > 2200

Doppeltür mit Laufschiene H > 2200

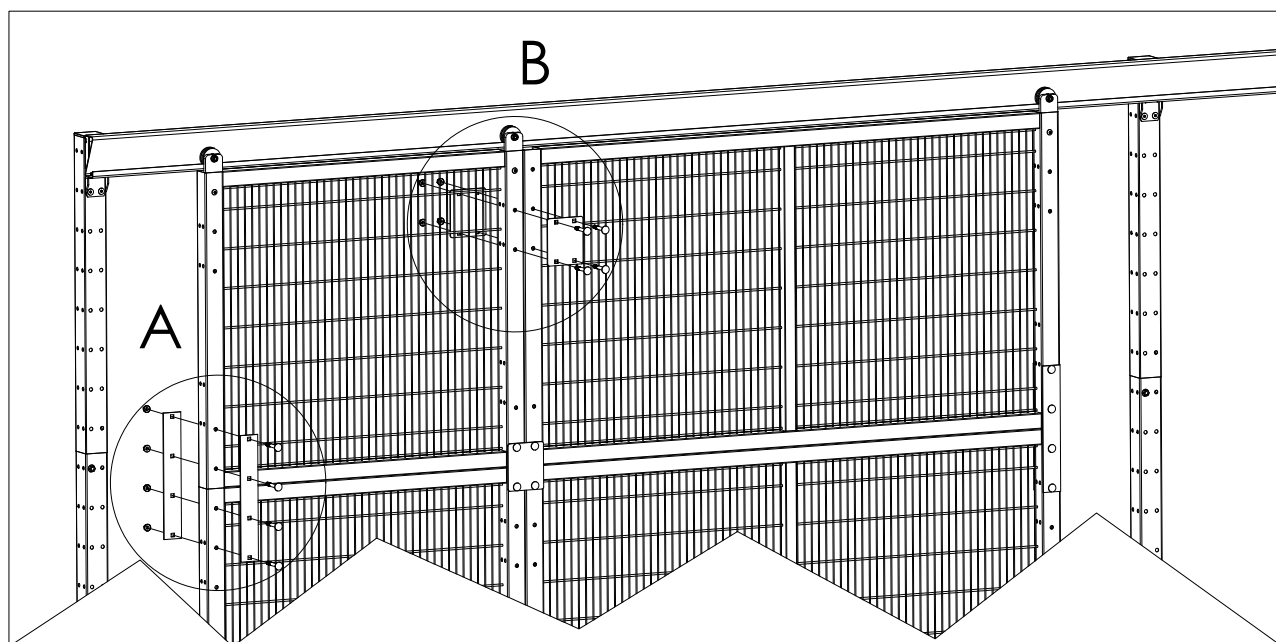
243-440-008



A



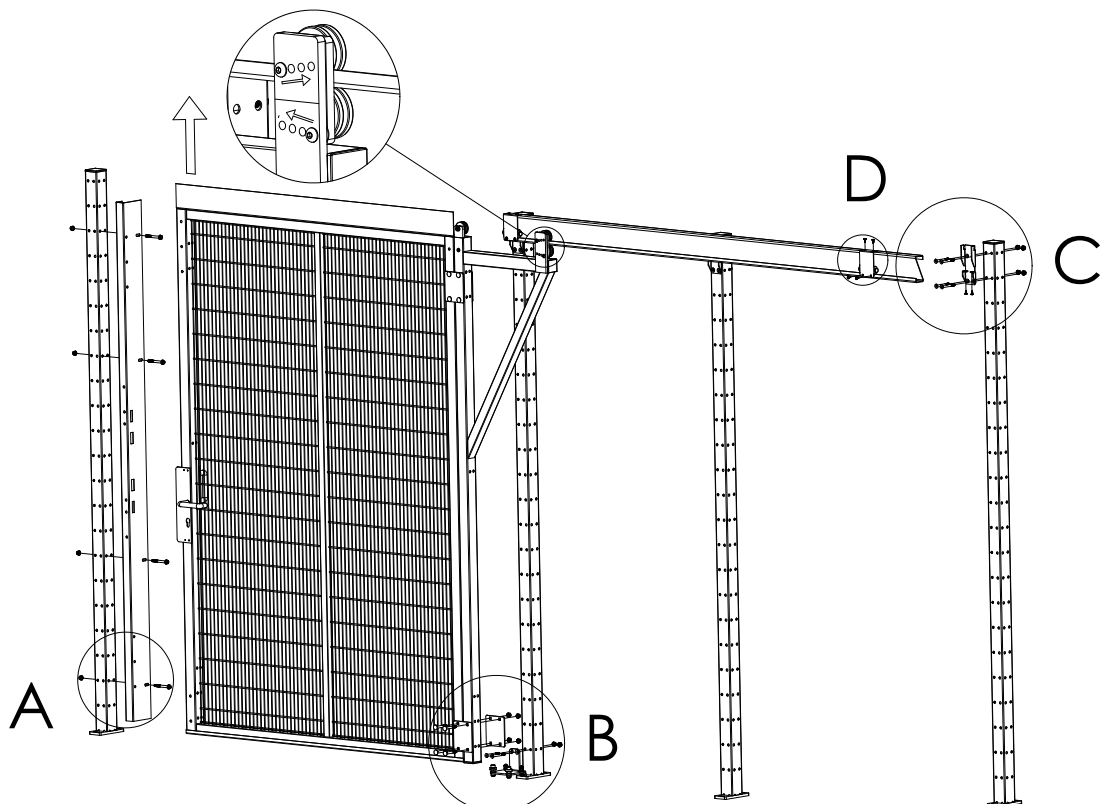
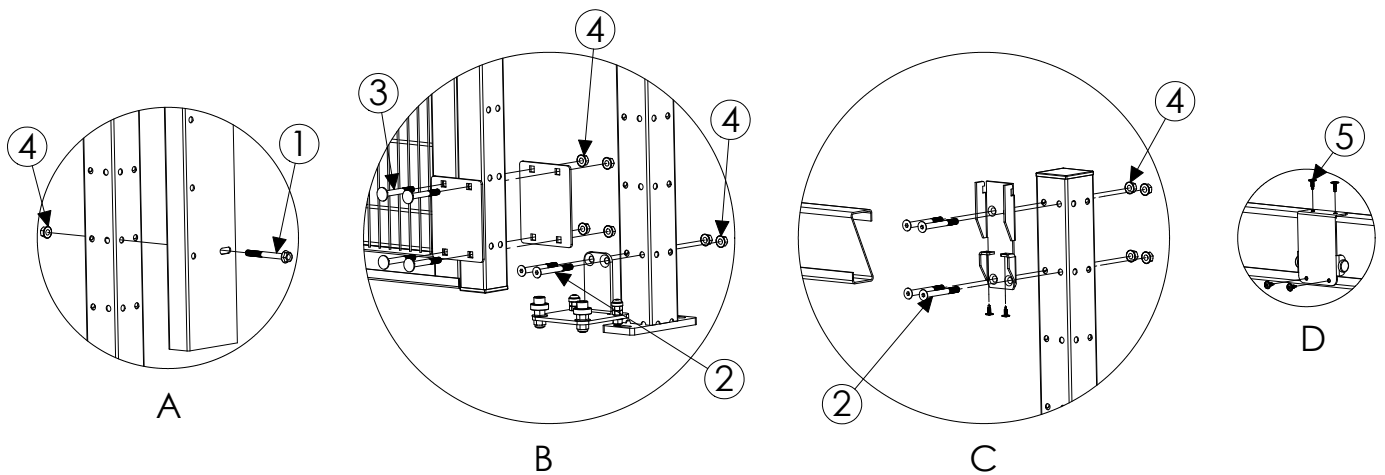
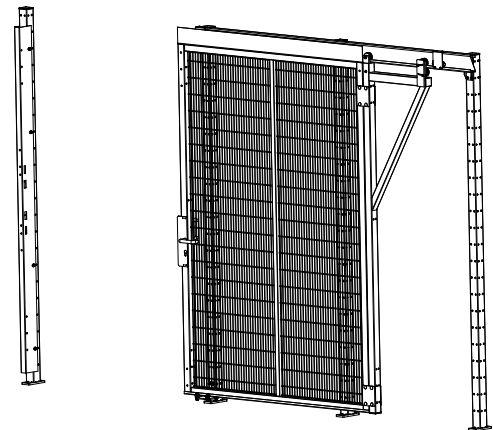
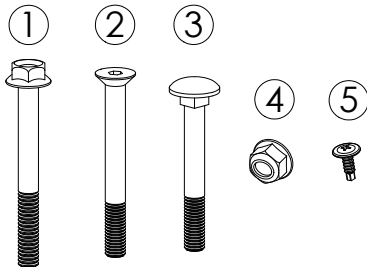
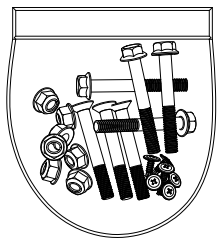
B



Single sliding door without top rail

Einzelschiebetür ohne obere Schiene

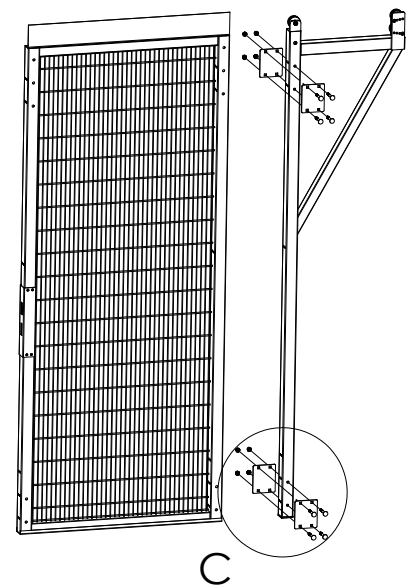
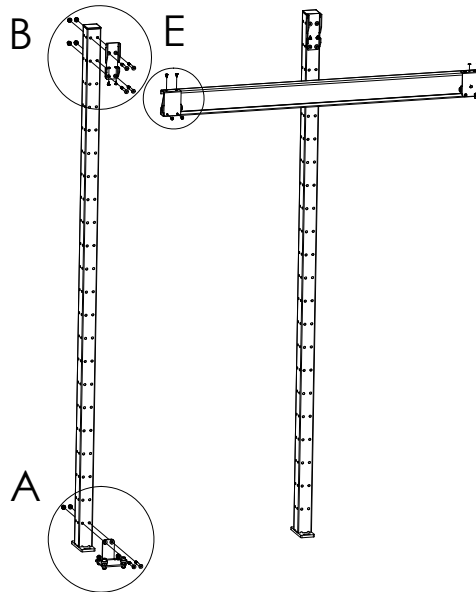
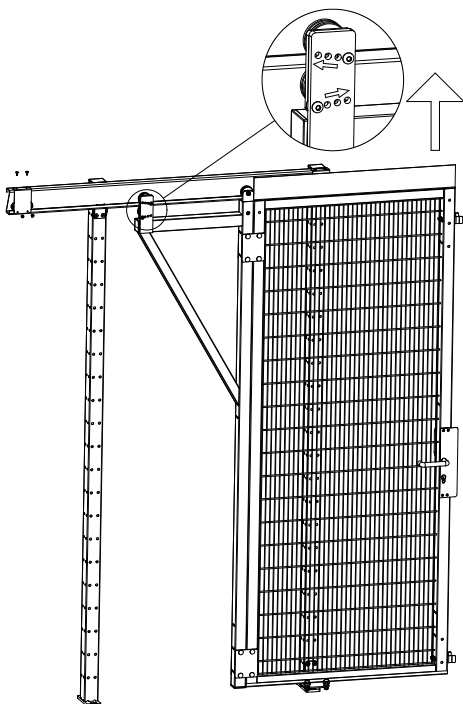
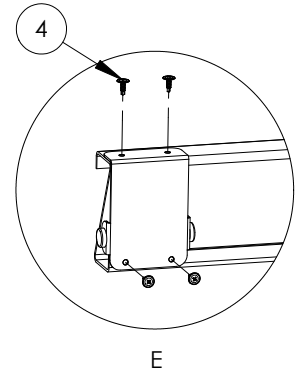
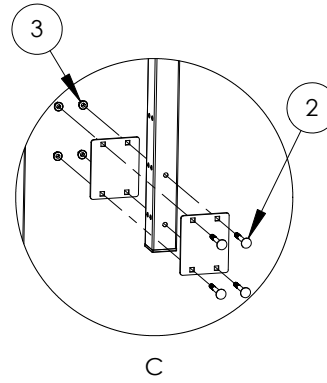
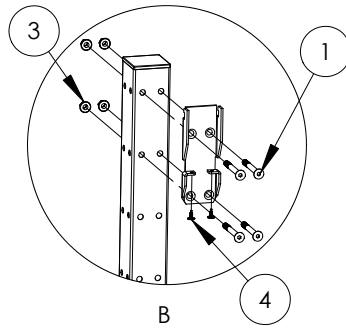
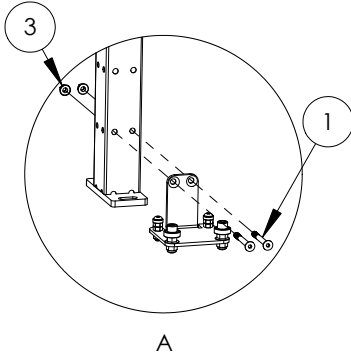
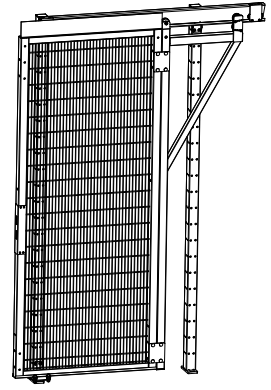
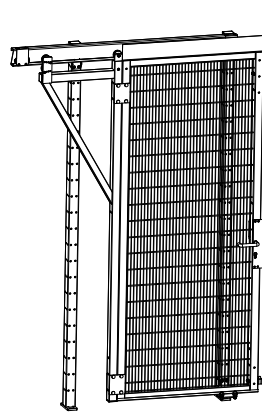
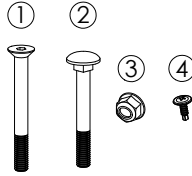
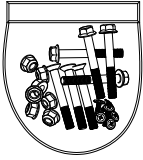
233-220-011



Double sliding door without top rail

Doppelschiebetür ohne obere Schiene

233-220-013







Machine guards

Garantell solutions in machine protection provides a **stable, flexible** and **easy to install** safety net, adapted to fulfil the demands of the new Machinery Directive (see information concerning norms.)

- **Stable** - stable post and extra strengthened doors.
- **Flexible** - Several heights and widths of wall sections, cutting kit also provided to enable adaptation on site.
- **Easy to install** - to save time on site and reduce the risk of something missing or being incorrectly installed, the doors are delivered pre-mounted and the foot on the post is welded.

Installation - post, wall

- Fixed protection - bolted joints
- Fixed protection - attachments remains on the mesh element (see information concerning norms)

Wall section - accessories

- Vertical cutting kit - profile packages for adaption on the width
- Horizontal cutting kit - profile packages for adaption on the height
- End moulding - edge protectors made of rubber for smaller cut outs in the mesh

Post fixing - floor

- Anchor bolts - standard
- Chemical fixing
- J-hook - for gratings

Door - options

- Single hinged door
- Double hinged door
- Top rail sliding door
- Top rail double door centre locking
- Side hung sliding door, without top rail
- Side hung sliding double door with centre locking, without upper rail.

Door - locking alternative

- For padlock
- For Eurocylinder
- For Euchner MGB, NZ, TZ
- For Schmersal AZM 200, AZ 16, TVS (Switch for hinges)
- For Siemens 3SE5
- For Trojan 5

Surface

As standard we offer our mesh elements galvanized (8-25 µm), doors and posts are powder coated in silver grey (Ral 9006) for use indoors. Also available powder coated in any RAL colour.

Garantells Lösungen im Maschinenschutzbereich geben ein stabiles, flexibles und montagefreundliches Sicherheitsgitter, welches den neuen Maschinenrichtlinien entspricht (siehe Information zu den Richtlinien).

- **Stabil** - starke Stützen und extra verstärkte Türen
- **Flexibel** - mehrere Höhen und Breiten der Wandelemente, die mit Profipaketen vor Ort angepasst werden können
- **Montagefreundlich** - um Zeit vor Ort zu sparen und zu reduzieren, dass etwas fehlt oder falsch montiert wird, werden die Türen vormontiert geliefert und die Fussplatte ist an der Stütze geschweisst

Montagealternativen - Stütze, Wand

- Feststehender Schutzzaun, Schraubenverbindung
- Feststehender Schutzzaun, Befestigungsmittel bleiben mit dem Schutz verbunden (siehe Information zu den Richtlinien)

Gitterelemente - Zubehör

- Vertikale Kappung - Profipaket für die Anpassung der Breite
- Horizontale Kappung - Profipaket für die Anpassung der Höhe
- Abschlussleiste - Kantenleiste aus Gummi für kleinere Ausschnitte im Gitter

Stützenbefestigung - Boden

- Dübel – Standard
- Chemische Dübel
- J-Haken – für Gitterroste

Türen - Alternative

- Einzelschwenktür
- Doppelschwenktür
- Schiebetür mit Laufschiene
- Doppelschiebetür mit Mittelschliessung und Laufschiene
- Seitlich hängende Schiebetür ohne Laufschiene
- Seitlich hängende Doppelschiebetür mit Mittelschliessung ohne Laufschiene

Türen - Schlösser

- Für Vorhängeschloss
- Für Euro-Zylinder
- Für Euchner MGB, NZ, TZ
- Für Schmersal AZM 200, AZ 16, TVS (Switch for hinges)
- Für Siemens 3SE5
- Für Trojan 5

Oberflächenbehandlung

Standardmässig sind alle Teile mit einer dünnen Schicht Zink (8-25µm) behandelt und ist für die Anwendung im Innenbereich geeignet. Die Stützen und Türen sind pulverbeschichtet in der RAL Farbe 9006. Unsere Produkte können auch in jeder RAL Farbe geliefert werden.

Machine guards Norms

On 29.12.2009 the new machine directive **2006/42/EC** came into force. This directive now requires the fittings on the machine guard to remain in place even when the fence is being dismantled. This applies to the guard that needs to be removed, for example during maintenance or cleaning.

Guide to the application of the Machinery Directive **2006/42/EC** 2:nd edition June 2010

1.4. REQUIRED CHARACTERISTICS OF GUARDS AND PROTECTIVE DEVICES

1.4.1. General requirements

Guards and protective devices must:

- be of robust construction,
- be securely held in place,
- not give rise to any additional hazard,
- not be easy to by-pass or render non-operational,
- be located an adequate distance from the danger zone,
- cause minimum obstruction to the view of the production process,
- enable essential work to be carried out on the installation and/or replacement of tools and for maintenance purposes by restricting access exclusively to the area where the work has to be done, if possible without the guard having to be removed or the protective device having to be disabled. In addition, guards must, where possible, protect against the ejection or falling of materials or objects and against emissions generated by the machinery.

1.4.2.1. Fixed guards

Fixed guards must be fixed by systems that can be opened or removed only with tools.

Their fixing systems must remain attached to the guards or to the machinery when the guards are removed.

Where possible, guards must be incapable of remaining in place without their fixings

You can find further explanation under §218 about the requirement regarding retained fastenings

...If the zone protected by a fixed guard does not need to be accessed or if the necessary access can be obtained by another route, fixed guards can be permanently fixed, for example, by welding, riveting or gluing. On the other hand, if it is necessary to open or remove a fixed guard, the first paragraph of section 1.4.2.1 requires that it must only be possible to open or remove the fixing systems with tools. This requirement aims to restrict the removal of fixed guards to competent or authorized persons. Fixed guards may thus be fixed, for example, by means of bolts, screws or other fasteners that can only be removed by using tools such as keys or wrenches. The choice of fixing system and tools must be considered in light of the risk assessment. Fixings that can be quickly loosened or removed such as, for example, wing nuts, or quick-release fasteners, must not be used.

The second indent of section **1.4.2.1** requires the fixing systems for fixed guards to remain attached to the guards or to the machinery when the guards are removed...

...Application of this requirement depends on the manufacturer's assessment of the risk concerned. The requirement applies to any fixed guards that are liable to be removed by the user with a risk of loss of the fixings, for example, to fixed guards that are liable to be removed during routine cleaning, setting or maintenance operations carried out at the place of use. The requirement does not necessarily apply to fixed guards that are only liable to be removed, for example, when the machinery is completely overhauled, is subject to major repairs or is dismantled for transfer to another site.

We therefore need to use the fixing system that remains attached to the fence when it is dismantled in the places you know you need to dismantle the guards. If the guards only have to be dismantled for major repairs or removal, we can use fixed guards such as bolts and nuts.

When should we use doors?

1.3.8.1 Moving transmission parts

Interlocking movable guards should be used where frequent access is envisaged

Conclusion

Guards fastening using bolts and nuts can be used on all the places you know you won't need to dismantle the guard for smaller maintenance or cleaning. On the places you need to dismantle the fence for maintenance or cleaning, you should use Garantells machine guard with fastenings remaining on the guard when it's dismantled. If you regularly need to dismantle the guard a solution with doors is preferable.

Seit dem 29/12/2009 gelten die neuen Maschinenrichtlinien **2006/42/EC**. Neu in dieser Richtlinie ist, dass die Befestigungsmittel am Schutzzaun bleiben sollen, auch nach dem Abnehmen des Gitterelementes. Dieses gilt zum Beispiel bei Wartungs- und Reinigungsarbeiten.

1.4 Anforderungen an Schutzeinrichtungen

1.4.1 Allgemeine Anforderungen

Trennende und nichttrennende Schutzeinrichtungen

- müssen stabil gebaut sein,
- müssen sicher in Position gehalten werden,
- dürfen keine zusätzlichen Gefährdungen verursachen,
- dürfen nicht auf einfache Weise umgangen oder unwirksam gemacht werden können,
- müssen ausreichend Abstand zum Gefahrenbereich haben,
- dürfen die Beobachtung des Arbeitsvorgangs nicht mehr als unvermeidbar einschränken und
- müssen die für das Einsetzen und/oder den Wechsel der Werkzeuge und zu Wartungszwecken erforderlichen Eingriffe möglichst ohne Abnahme oder Ausserbetriebnahme der Schutzeinrichtungen zulassen, wobei der Zugang ausschliesslich auf den für die Arbeit notwendigen Bereich beschränkt sein muss. Ferner müssen trennende Schutzeinrichtungen nach Möglichkeit vor einem Herausschleudern oder Herabfallen von Werkstoffen und Gegenständen, sowie vor den von der Maschine verursachten Emissionen schützen.

1.4.2.1. Feststehende trennende Schutzeinrichtungen

Die Befestigung feststehender trennender Schutzeinrichtungen dürfen sich nur mit Werkzeugen lösen oder Abnehmen lassen. Die Befestigungsmittel müssen nach dem Abnehmen der Schutzeinrichtungen mit den Schutzeinrichtungen oder mit der Maschine verbunden bleiben. Soweit möglich dürfen trennende Schutzeinrichtungen nach Lösen der Befestigungsmittel nicht der Schutzstellung verbleiben.

Im Leitfaden für die Maschinenrichtlinie 2006/42/EC 2:a Ausgabe Juni 2010, §218 kann man folgendes lesen:

...If the zone protected by a fixed guard does not need to be accessed or if the necessary access can be obtained by another route, fixed guards can be permanently fixed, for example, by welding, riveting or gluing. On the other hand, if it is necessary to open or remove a fixed guard, the first paragraph of section 1.4.2.1 requires that it must only be possible to open or remove the fixing systems with tools. This requirement aims to restrict the removal of fixed guards to competent or authorized persons. Fixed guards may thus be fixed, for example, by means of bolts, screws or other fasteners that can only be removed by using tools such as keys or wrenches. The choice of fixing system and tools must be considered in light of the risk assessment. Fixings that can be quickly loosened or removed such as, for example, wing nuts, or quick-release fasteners, must not be used.

The second indent of section **1.4.2.1** requires the fixing systems for fixed guards to remain attached to the guards or to the machinery when the guards are removed...

Application of this requirement depends on the manufacturer's assessment of the risk concerned. The requirement applies to any fixed guards that are liable to be removed by the user with a risk of loss of the fixings, for example, to fixed guards that are liable to be removed during routine cleaning, setting or maintenance operations carried out at the place of use. The requirement does not necessarily apply to fixed guards that are only liable to be removed, for example, when the machinery is completely overhauled, is subject to major repairs or is dismantled for transfer to another site.

Deshalb braucht man nur unverlierbare Schrauben an den Stellen, wo man den Schutzzaun abnehmen muss. Wenn der Schutzzaun nur bei grösseren Reparaturen oder bei Umzug abgebaut werden muss, kann man feststehende Schutzeinrichtungen mit Schrauben und Bolzen verwenden.

Wann soll man Türen einsetzen?

1.3.8.1. Bewegliche Teile der Kraftübertragung.

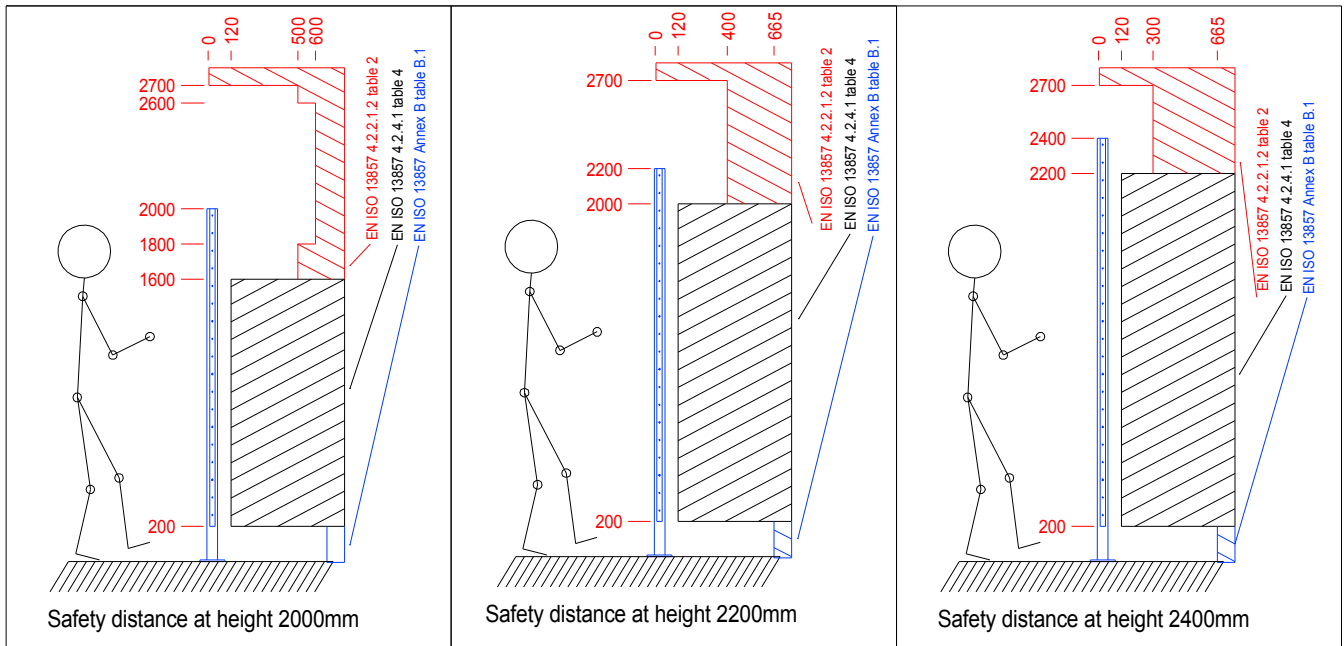
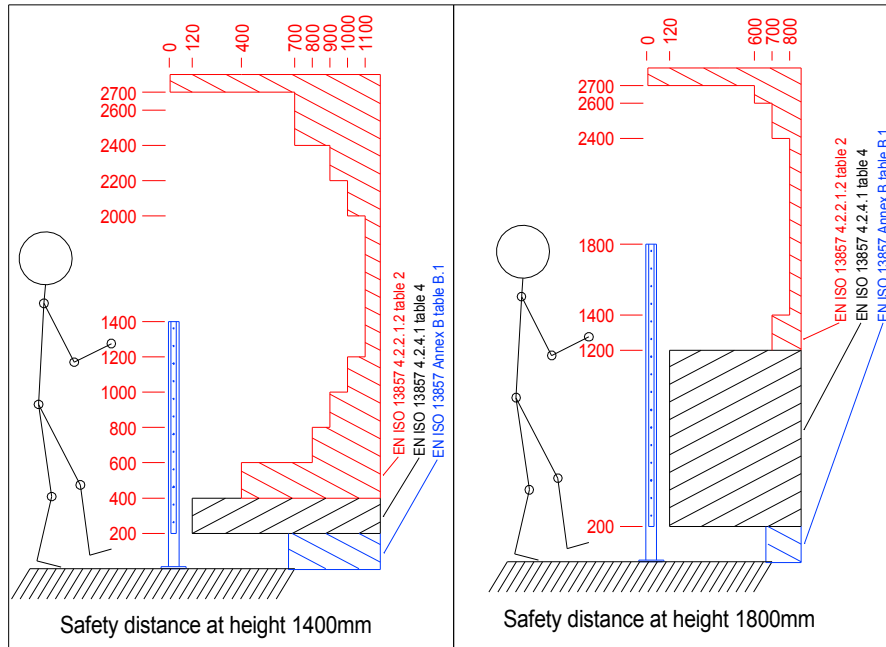
Bewegliche trennende Schutzeinrichtungen (Türen) mit Verriegelung sind zu verwenden wenn häufige Eingriffe vorgesehen sind.

Fazit

Schutz mit Schrauben und Muttern kann man an den Stellen einsetzen, wo man weiss dass man den Schutz nicht für kleinere Reparaturen oder Reinigungsarbeiten abbauen muss. An den Stellen wo man den Schutz bei Wartungs- und Reinigungsarbeiten abbauen muss, sollte man Garantellschutz mit unverlierbaren Schrauben einsetzen. Bei häufigem Zugang zum Bereich sollte man Türen einsetzen.

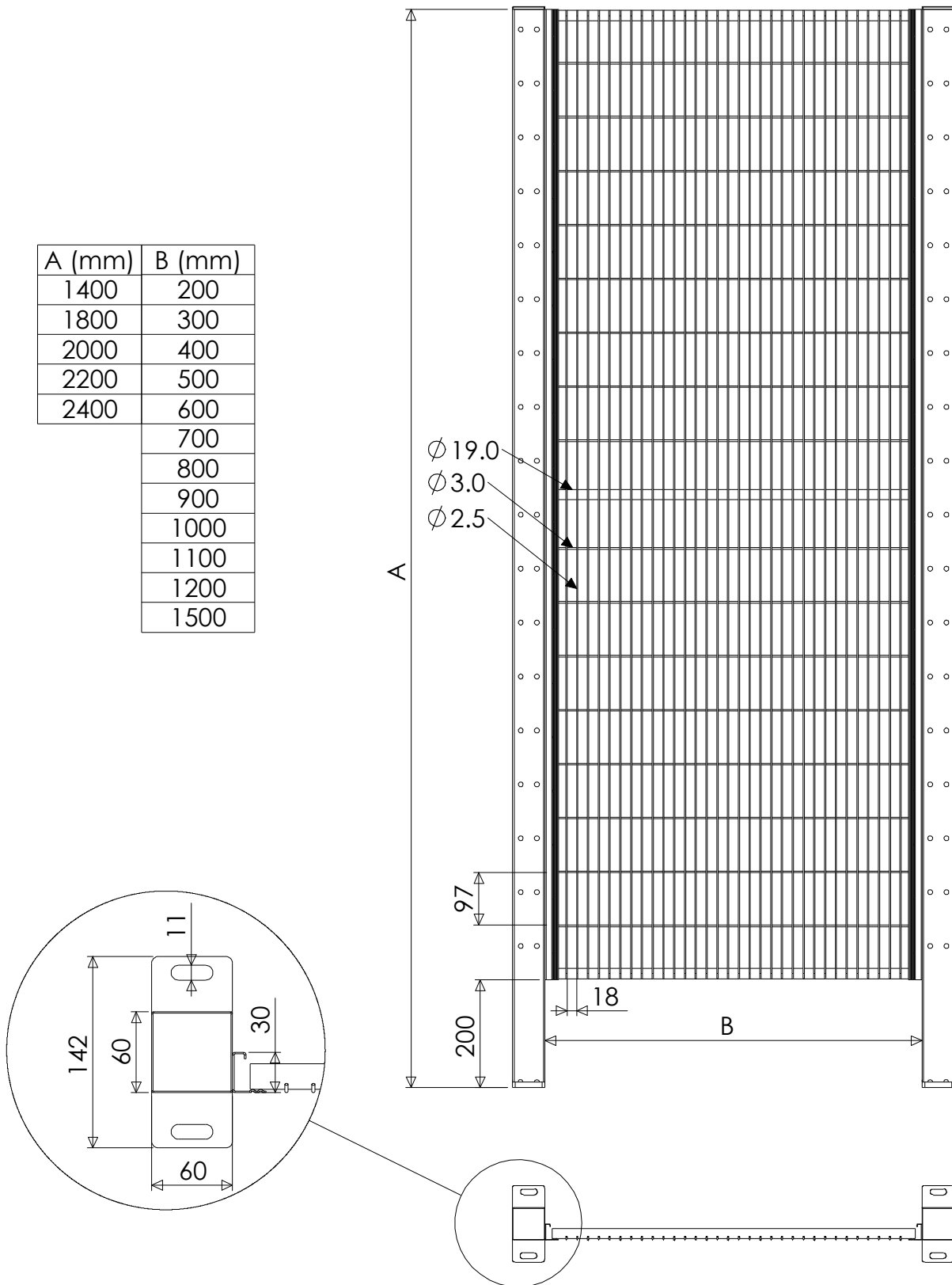
Safety distances

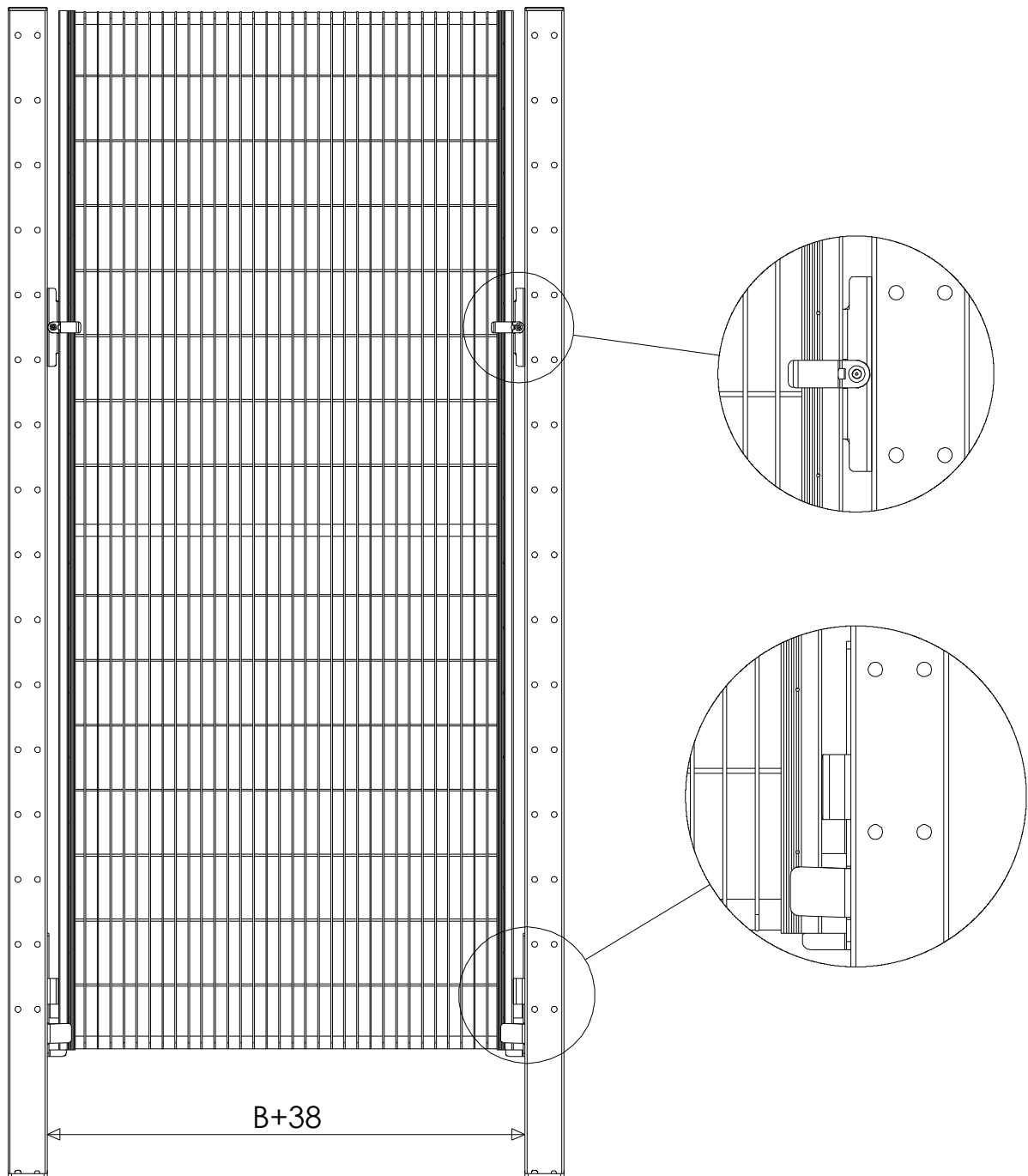
Sicherheitsabstände



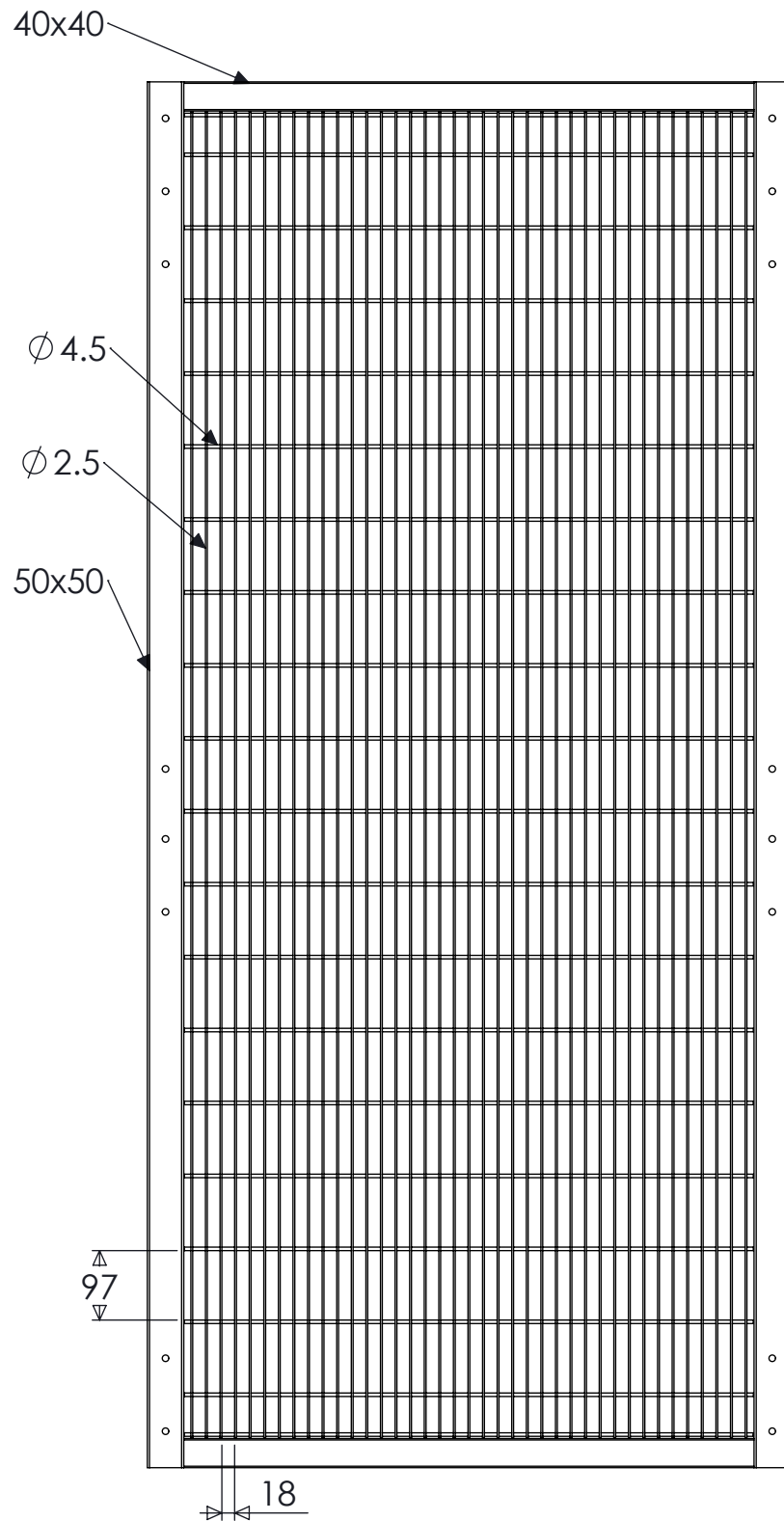


A (mm)	B (mm)
1400	200
1800	300
2000	400
2200	500
2400	600
	700
	800
	900
	1000
	1100
	1200
	1500



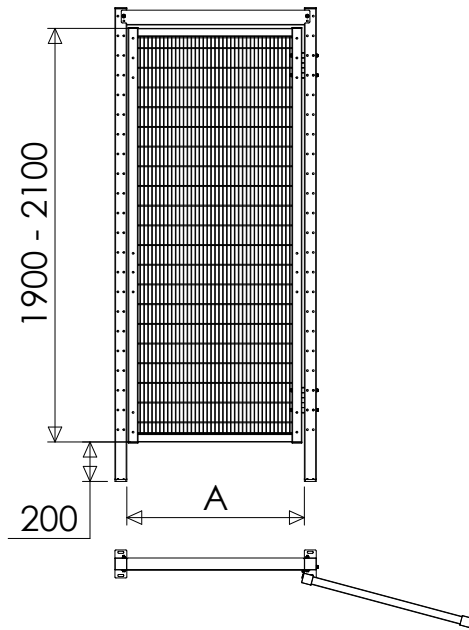






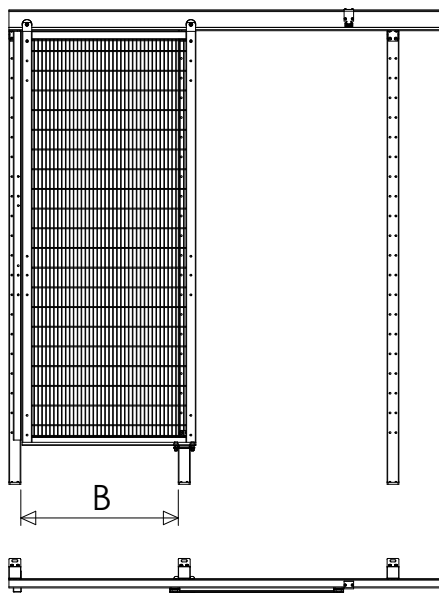
Door options

Türalternativen



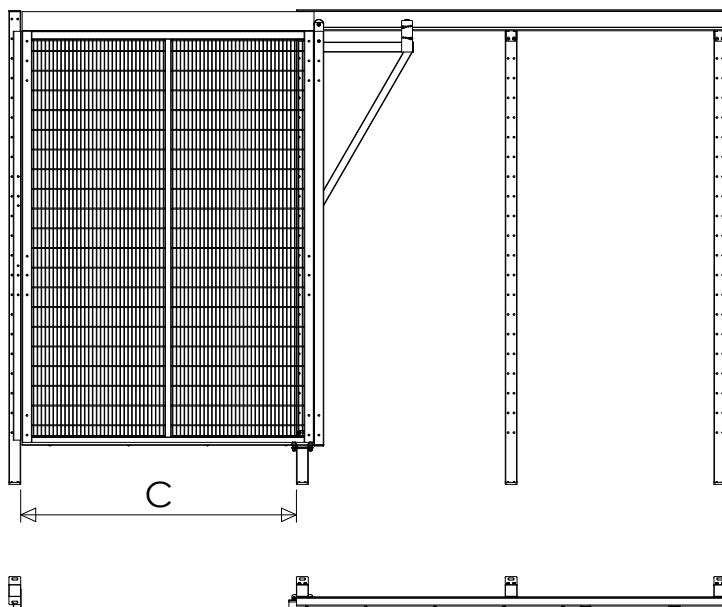
Flügeltür

A
700
800
900
1000
1100
1200
1500



Einfach-Hängeschiebetür
mit oberer Laufschiene

B
800
1100
1400
2300
2900



Doppel-Hängeschiebetür
einseitige Öffnung

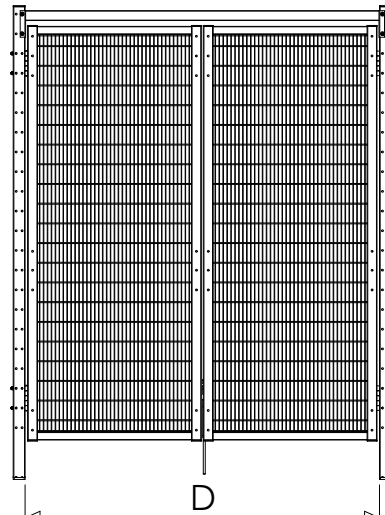
C
800
1400

Freie Durchfahrt,
keine Begrenzung durch
Laufschiene

Door options

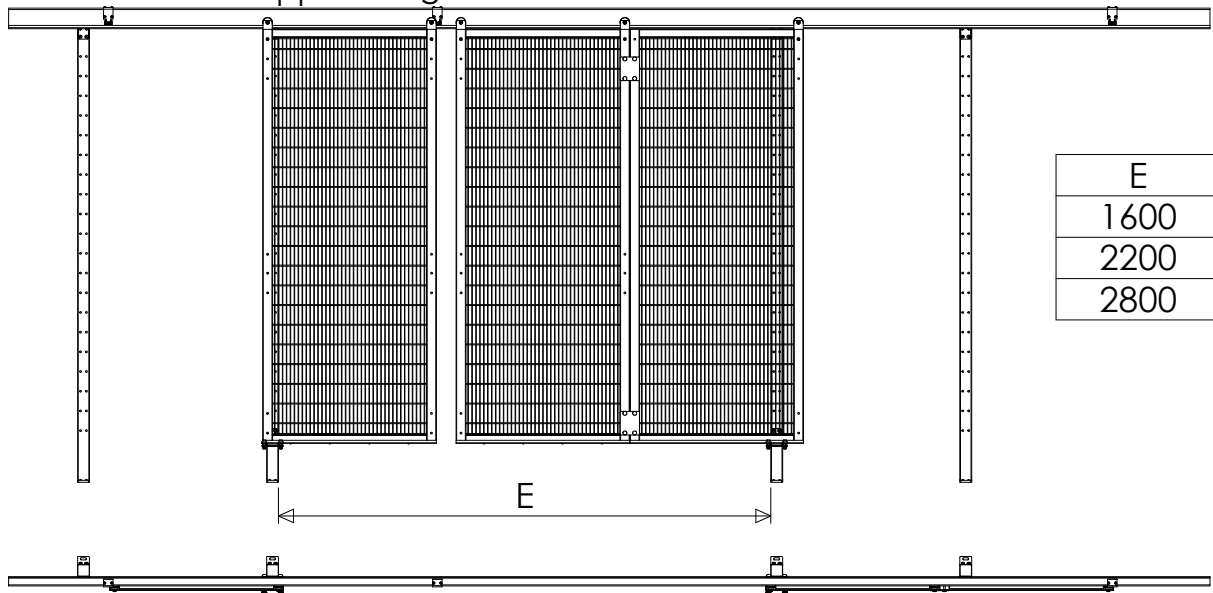
Türalternativen

Doppel-Flügeltür

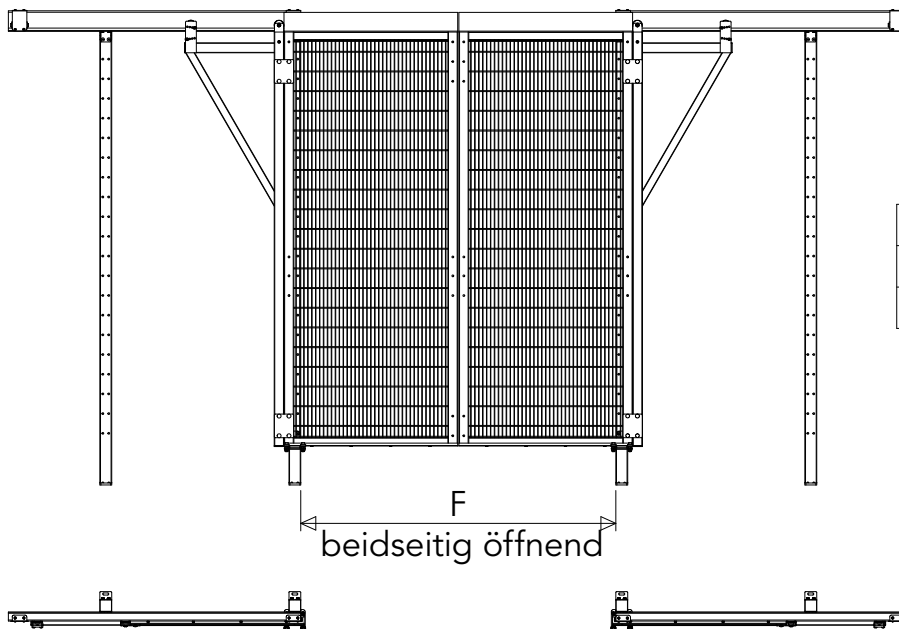


D
1800
2400
3000

Doppel-Hängeschiebetore mit oberer Laufschiene



E
1600
2200
2800



F
2200
2800

F
beidseitig öffnend

Lock options

Schlossalternativen



Cane bolt

Schiebeschloss



Schmersal AZM200



Euchner MGB

Lock options

Schlossalternativen

Mounting plate for knobs

**Befestigungsplatte für
Not Aus**



Eurocylinder

Eurozylinder



Pad lock plates

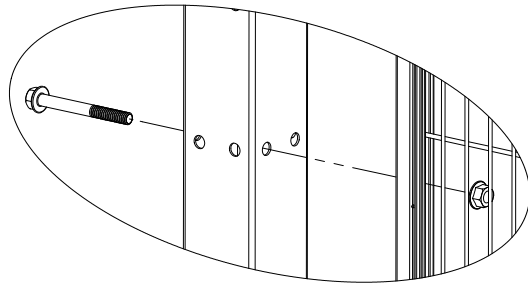
Vorhängeschlossbefestigung



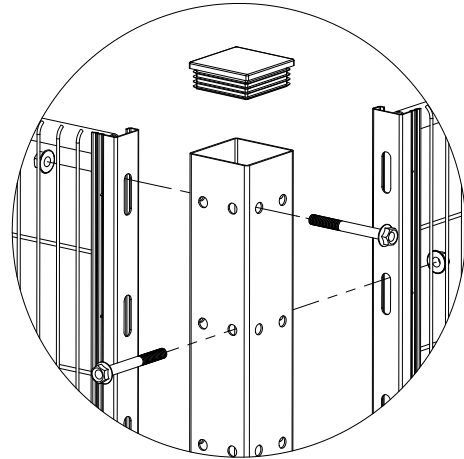


Walls

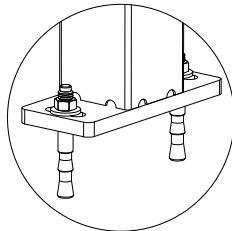
Wände



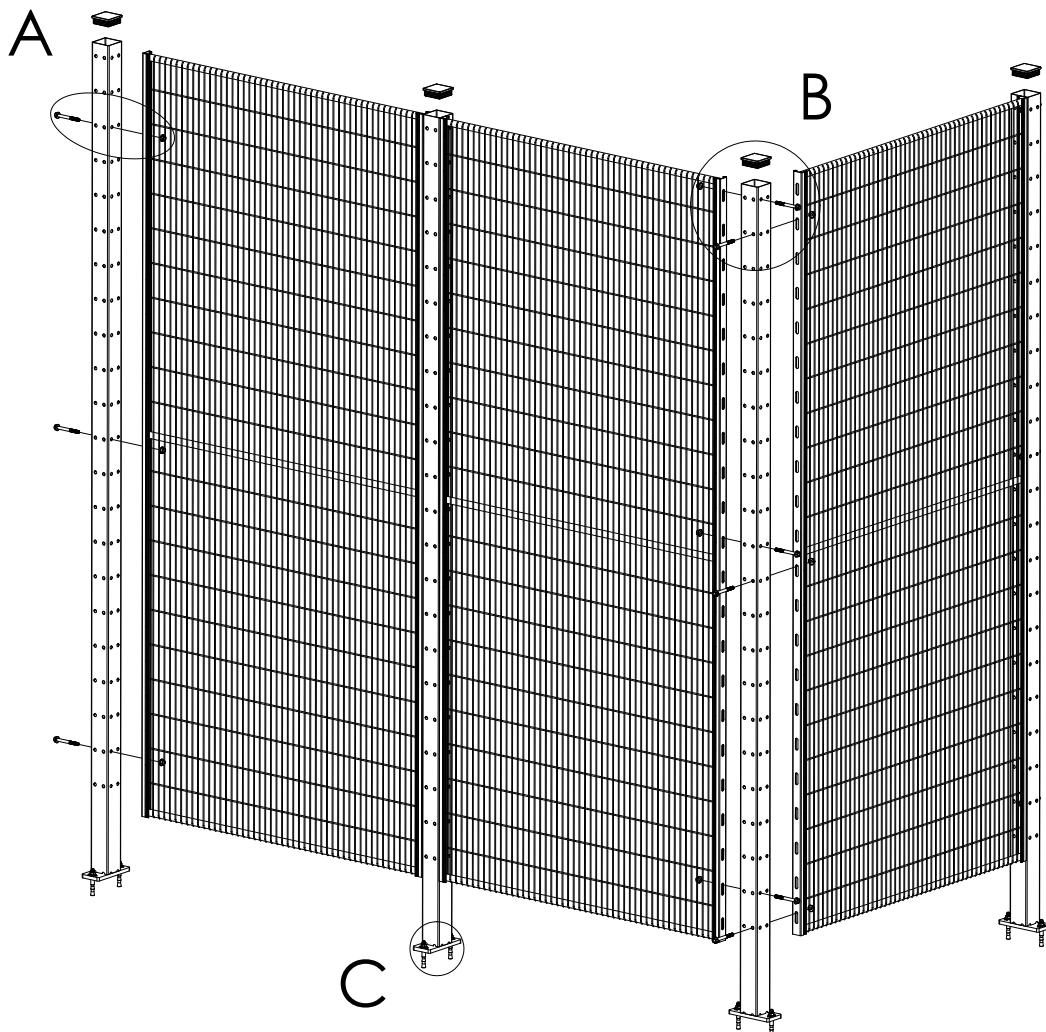
A



B

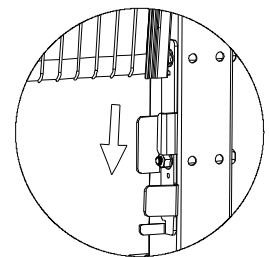
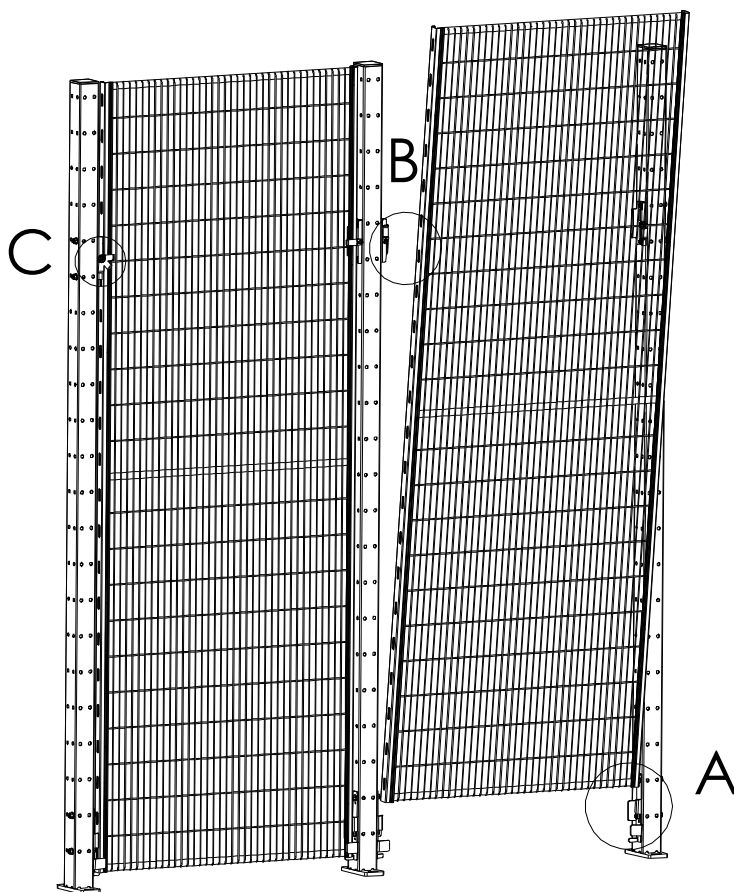
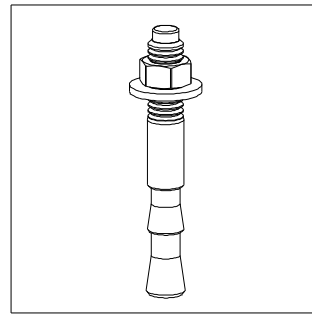
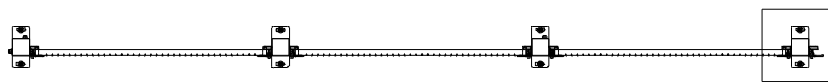
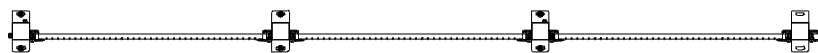
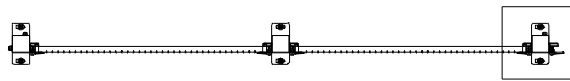
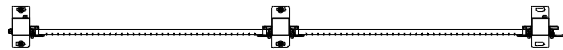
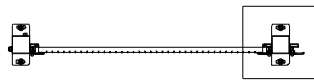
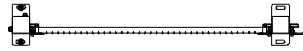


C

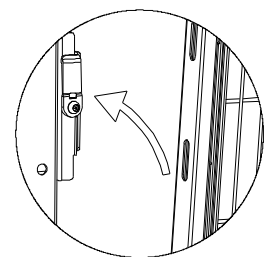


Quick fixing release

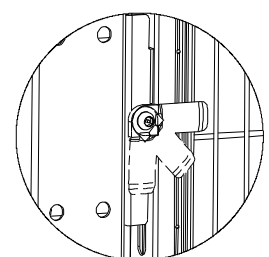
Schnellbefestigung



A



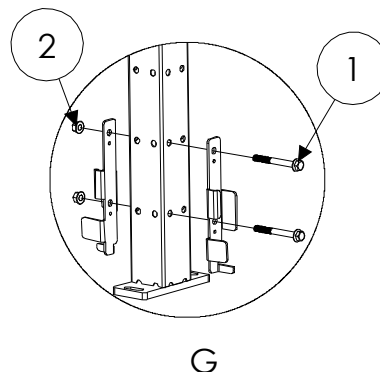
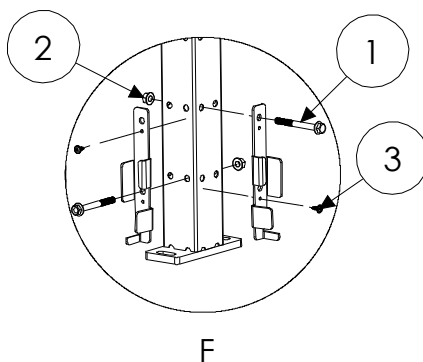
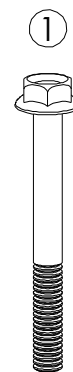
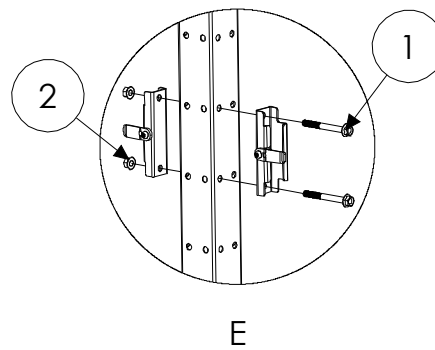
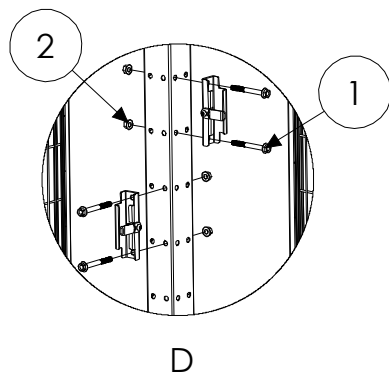
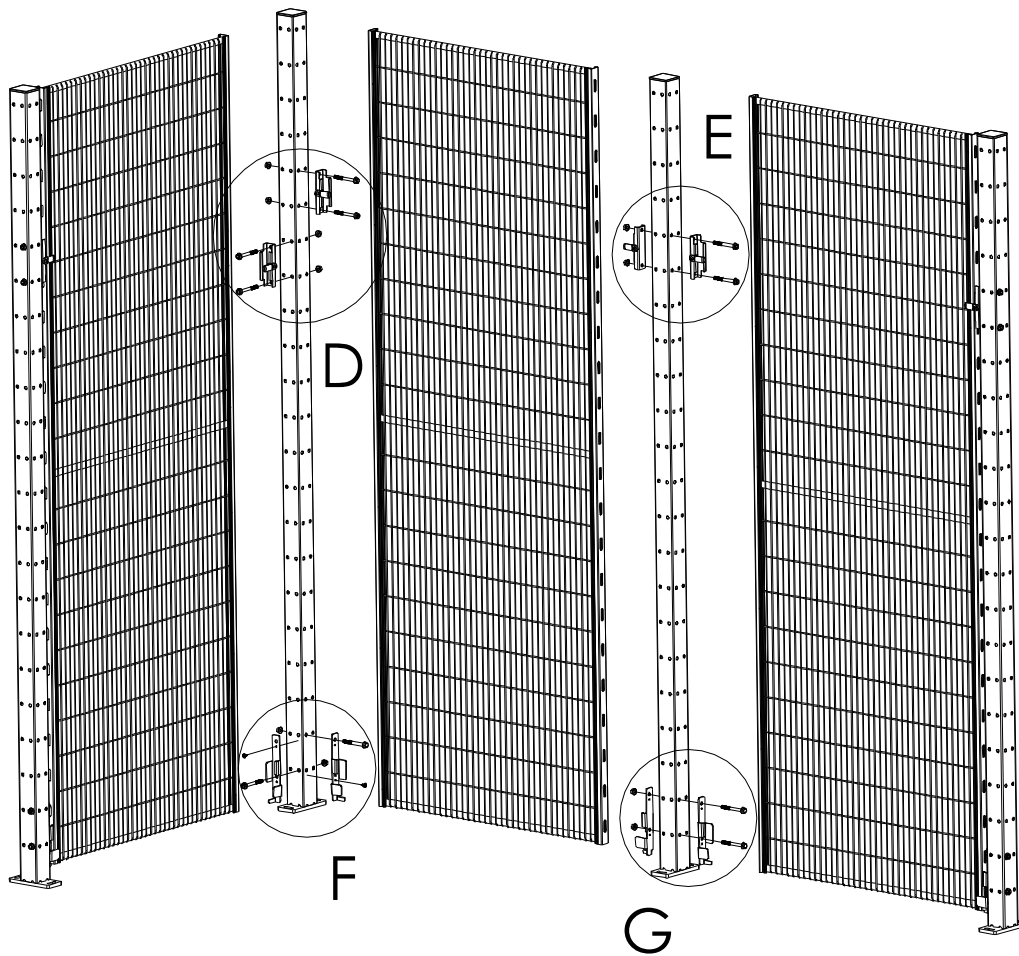
B



C

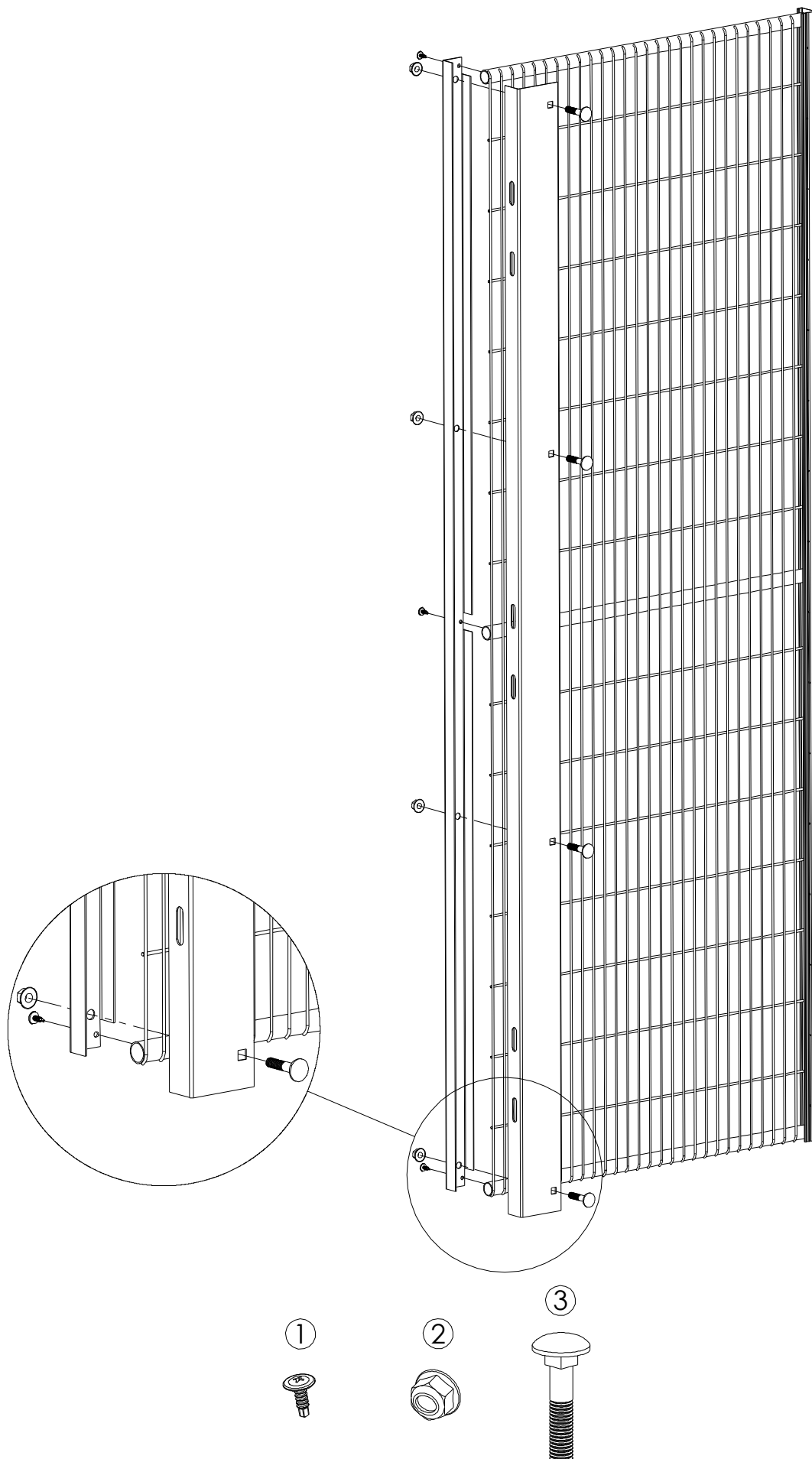
Quick fixing release

Schnellbefestigung



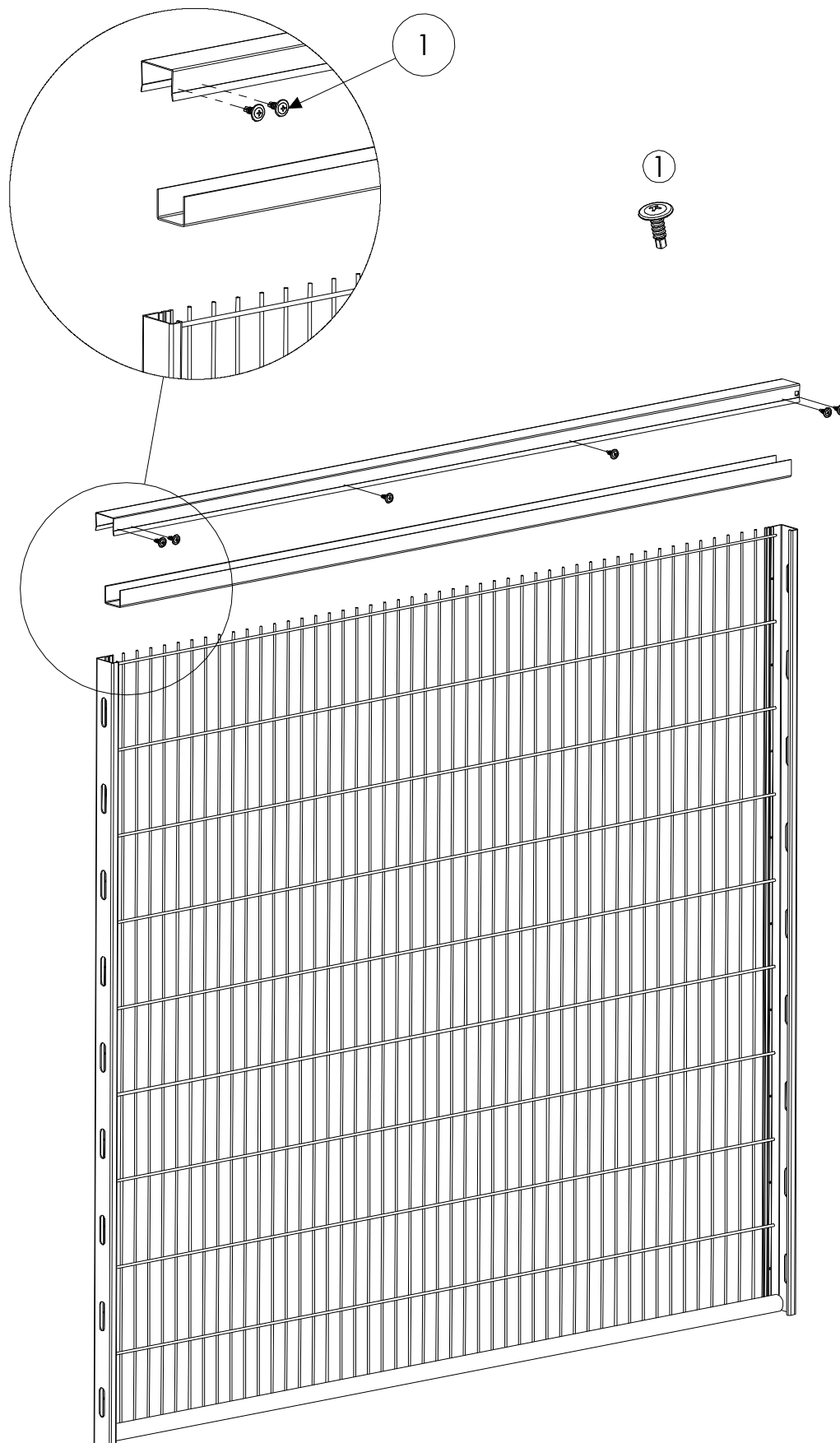
Vertical cutting

Vertikal kappen



Horizontal cutting

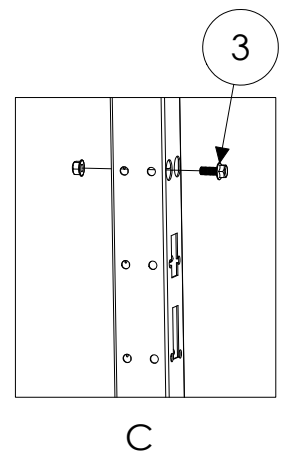
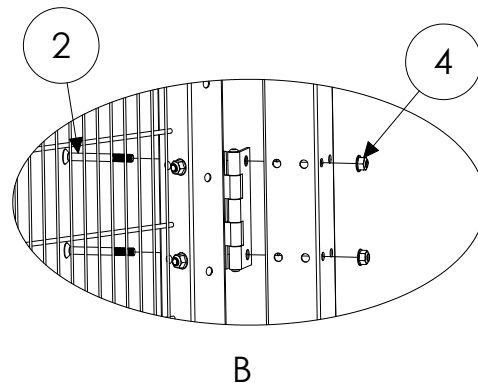
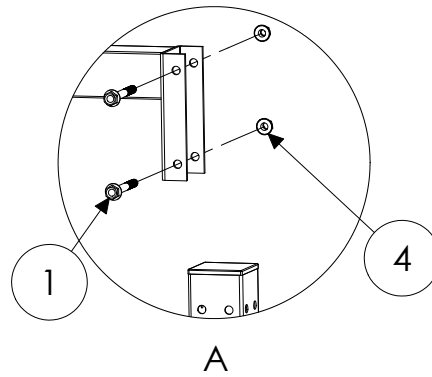
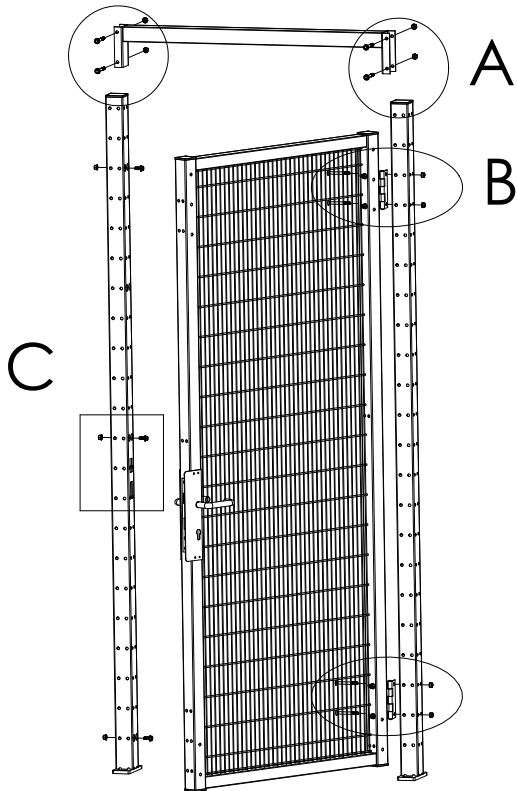
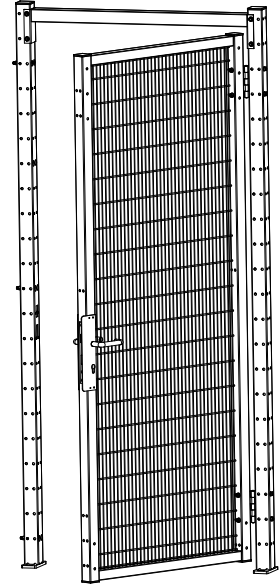
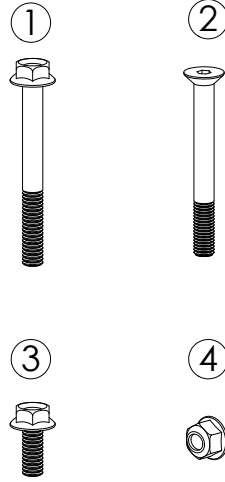
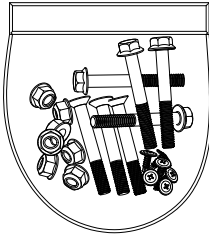
Horizontal kappen



Single hinged door for cylinder

Einzelschwenktür für Zylinderschloss

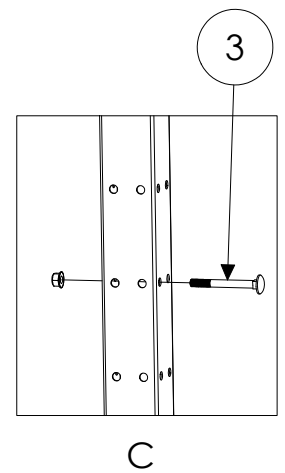
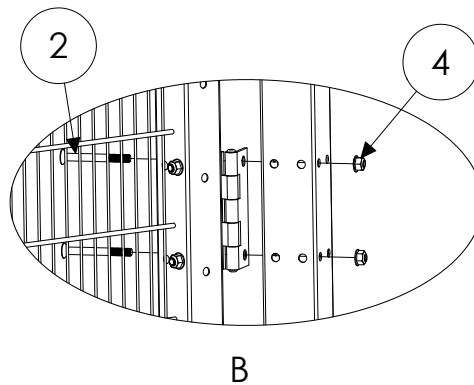
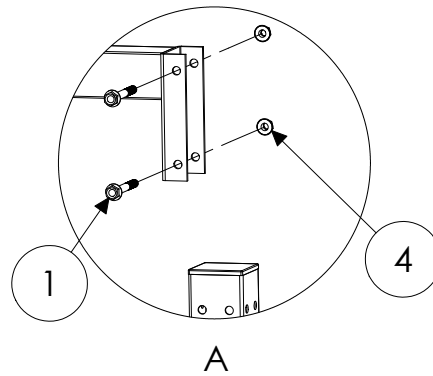
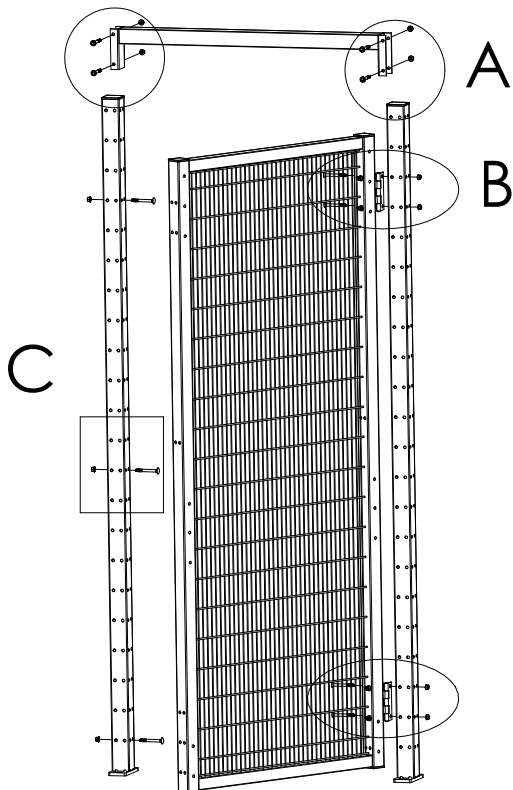
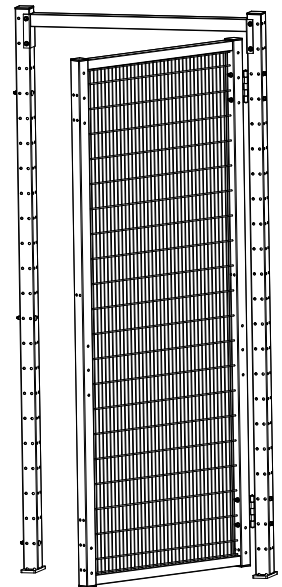
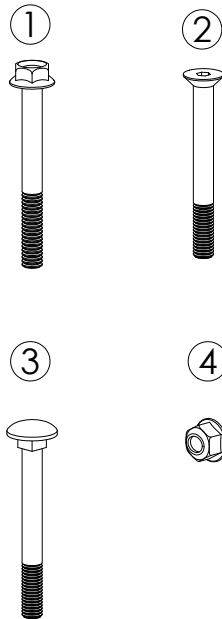
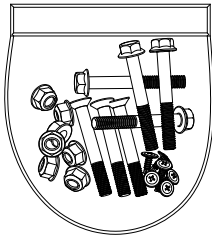
223-220-001



Single hinged door

Einzelschwenktür

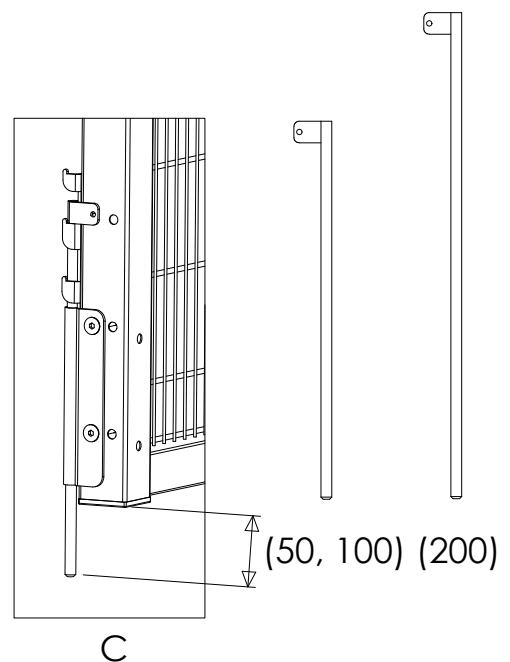
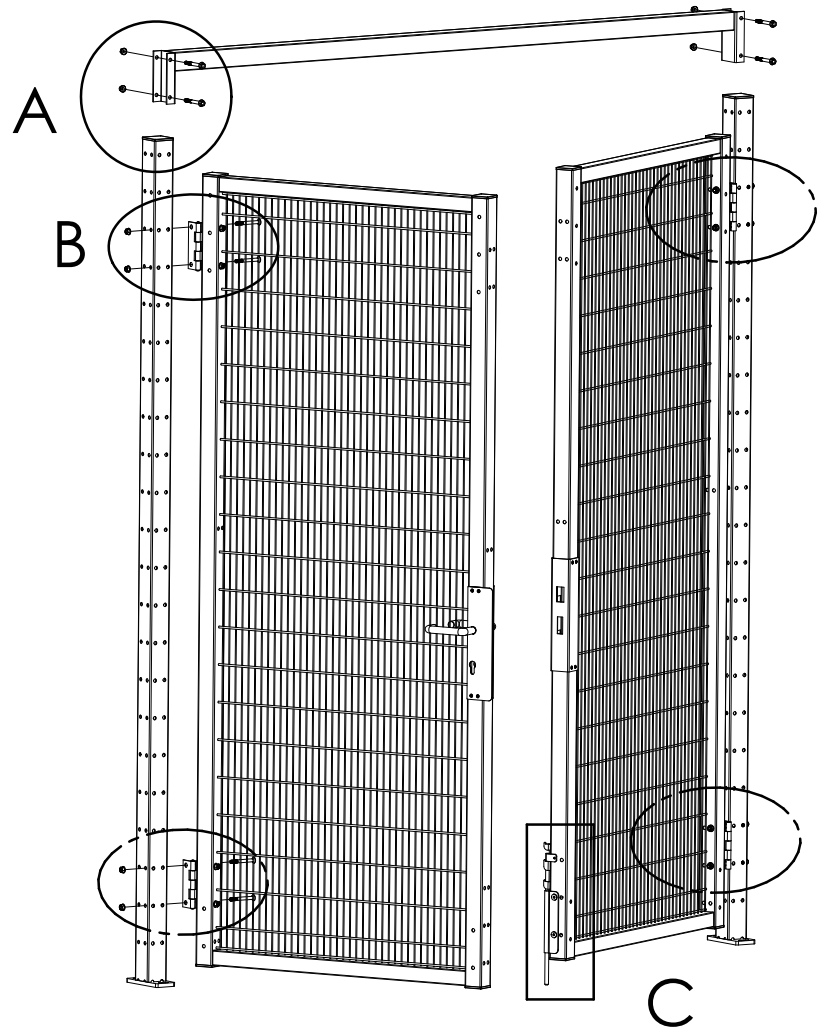
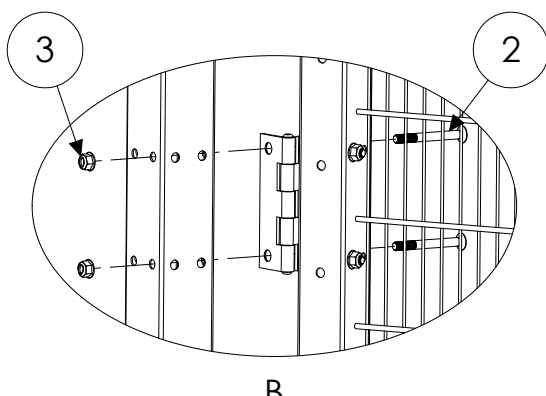
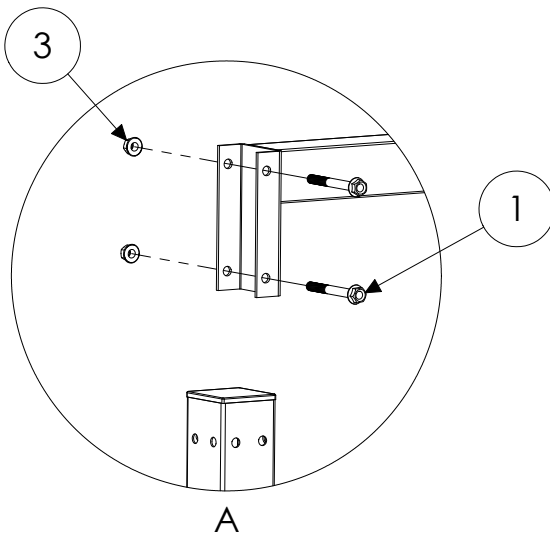
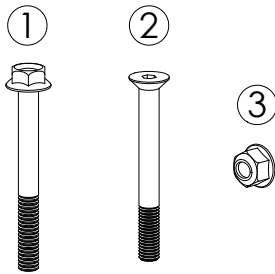
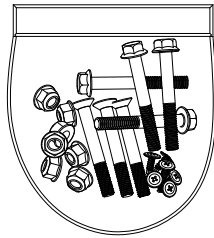
223-220-008



Double hinged door

Doppelschwenktür

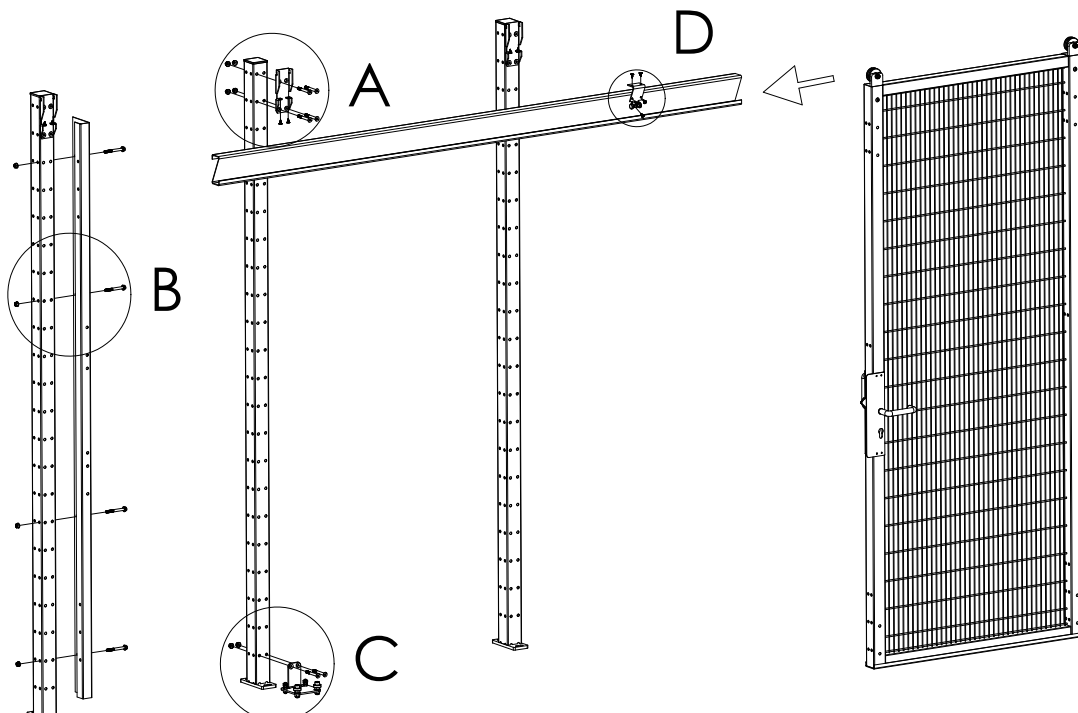
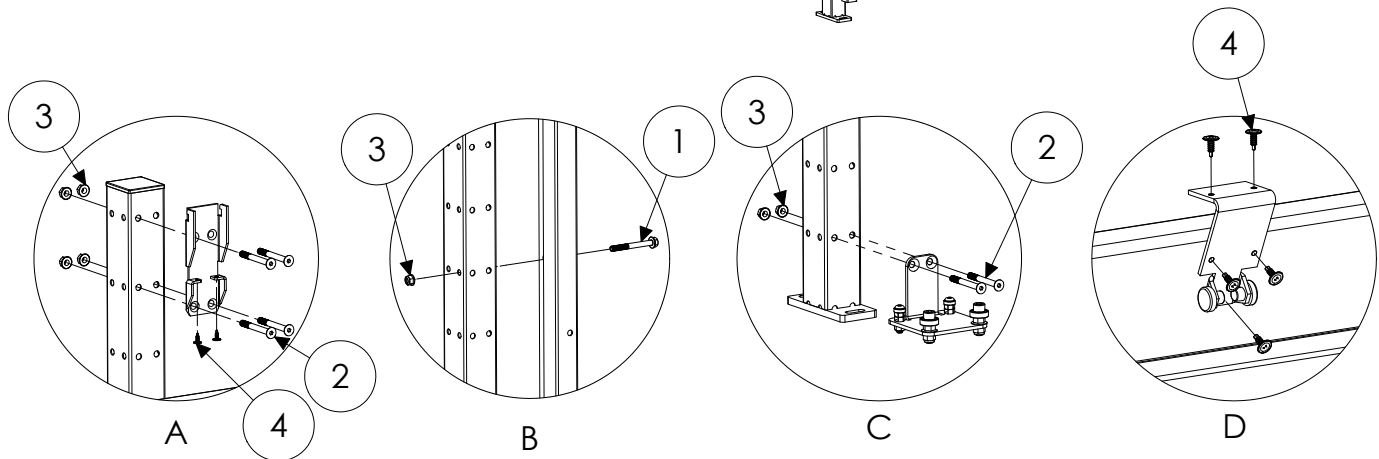
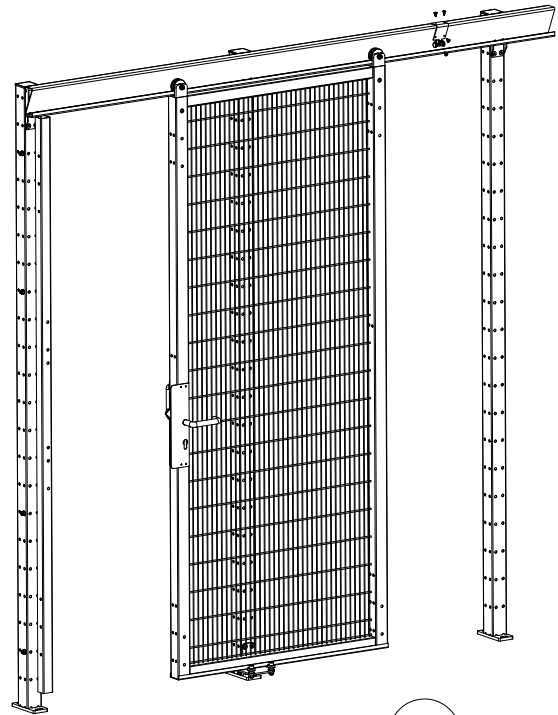
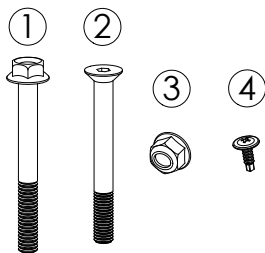
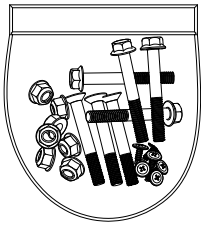
223-220-003



Single sliding door W 800-1400

Einzeltür mit Laufschiene B 800-1400

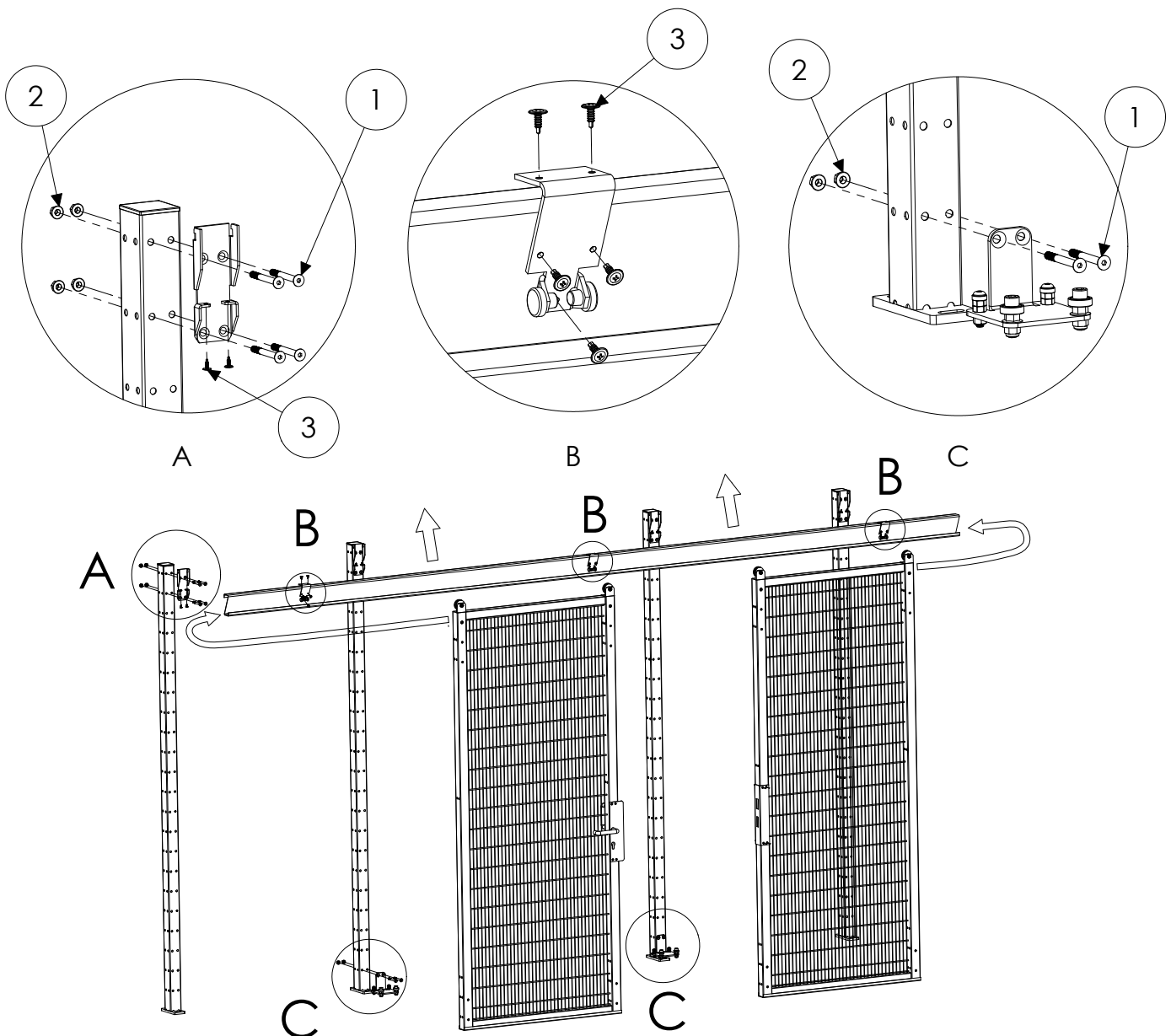
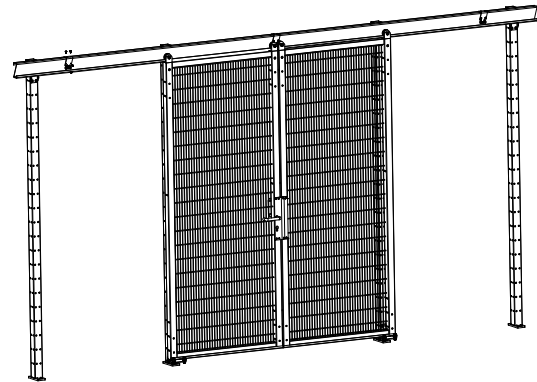
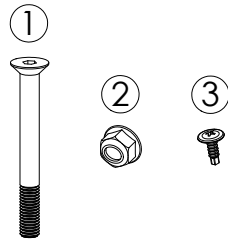
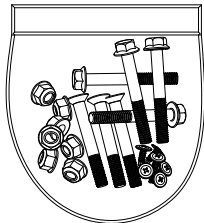
243-220-005



Double sliding door W 1600-2800

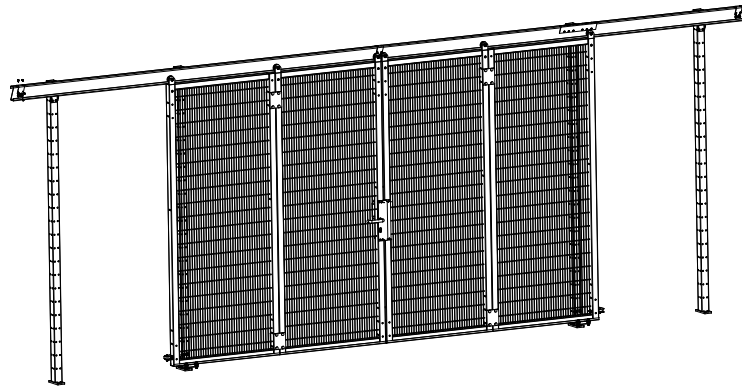
Doppeltür mit Laufschiene B 1600-2800

243-220-009

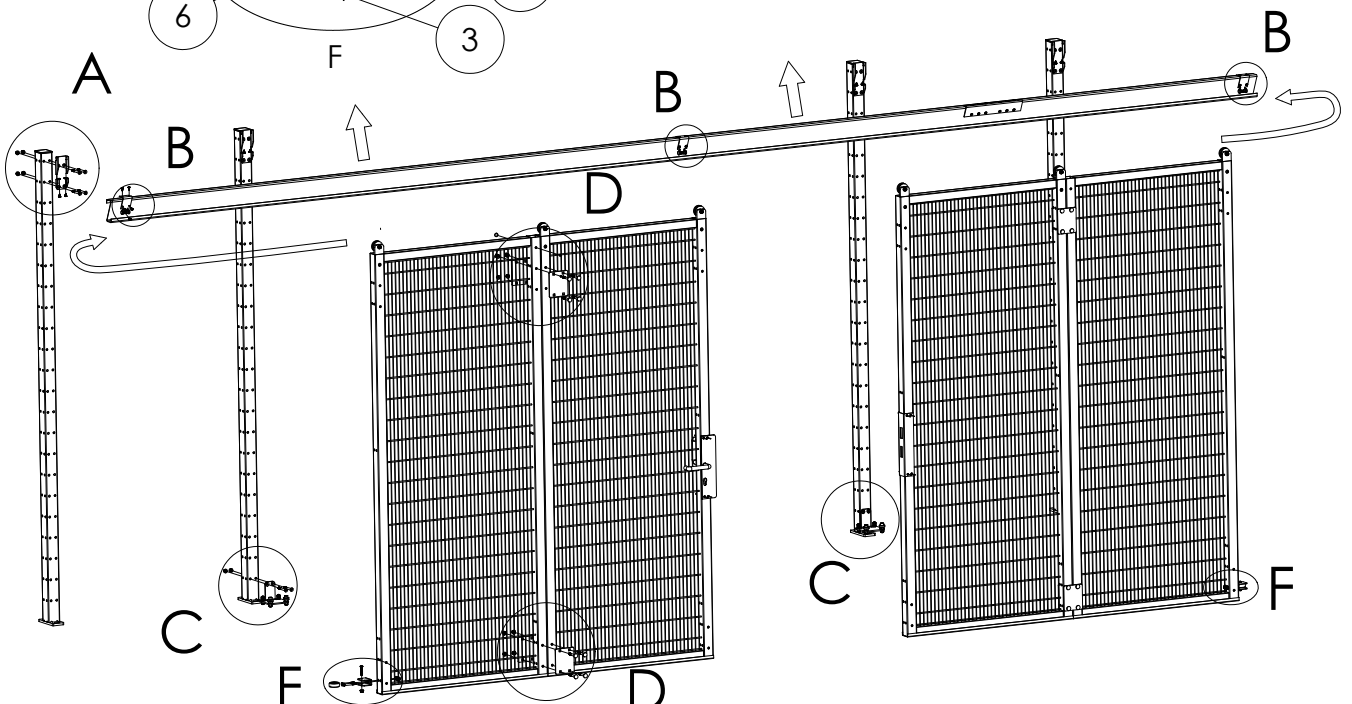
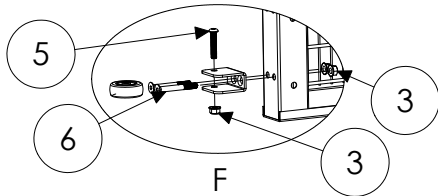
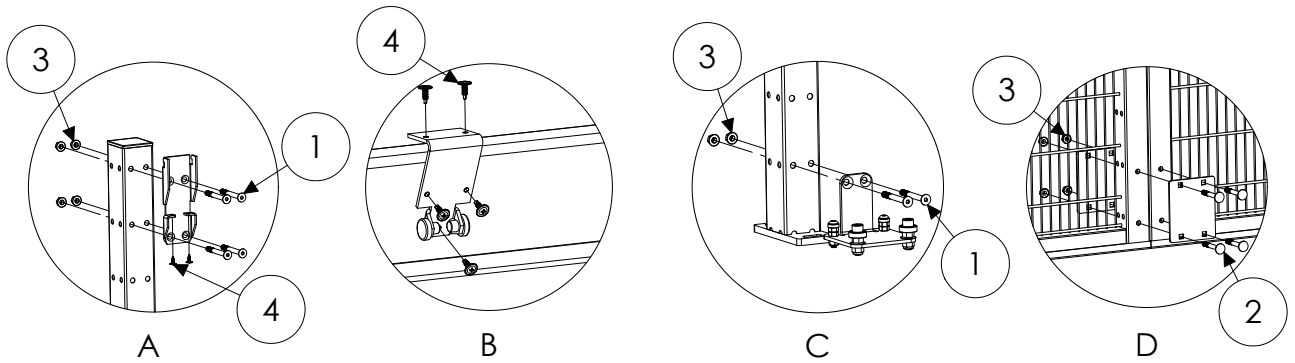
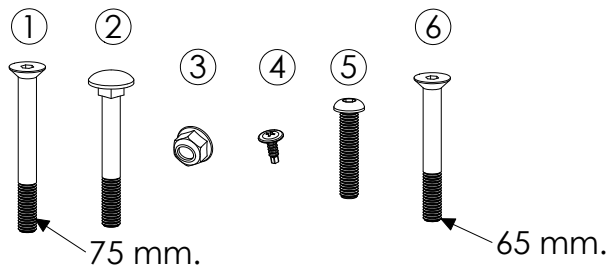
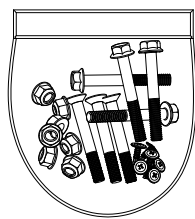


Double sliding door W 3000-4500

Doppeltür mit Laufschiene B 3000-4500



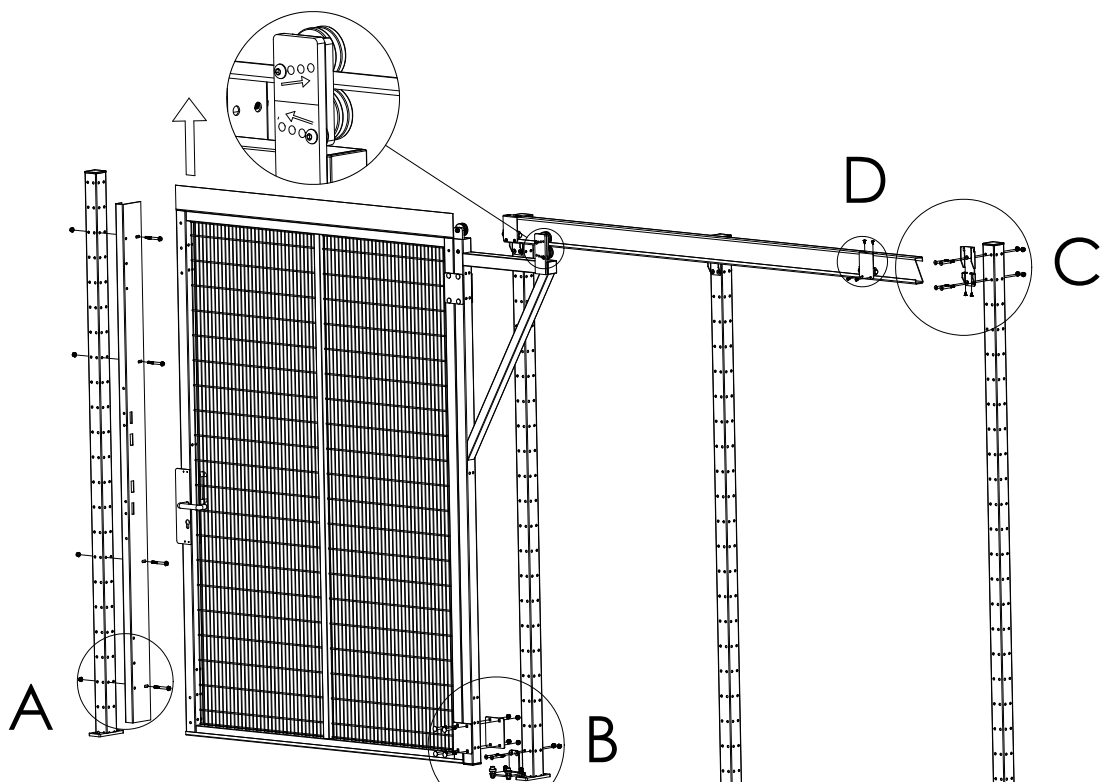
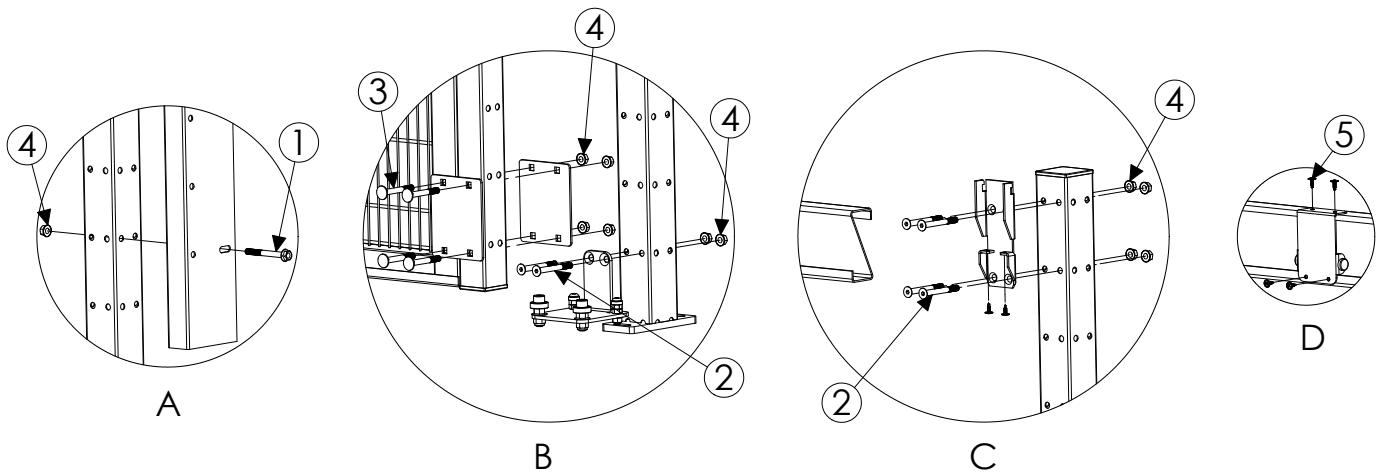
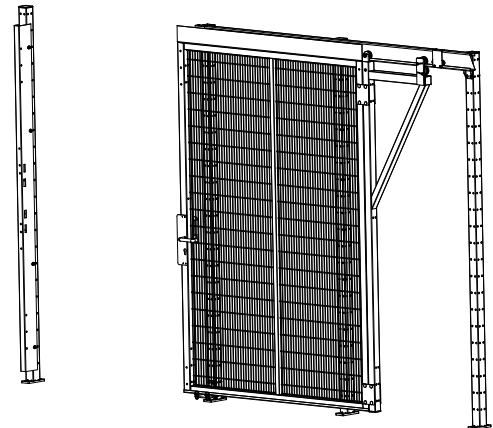
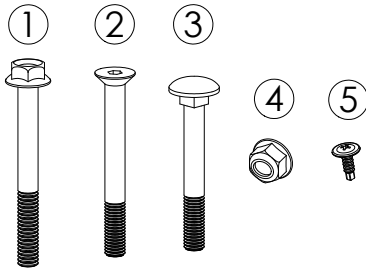
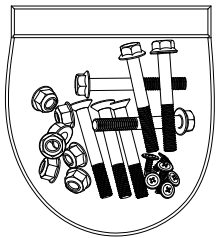
243-220-008



Single sliding door without top rail

Einzelschiebetür ohne obere Schiene

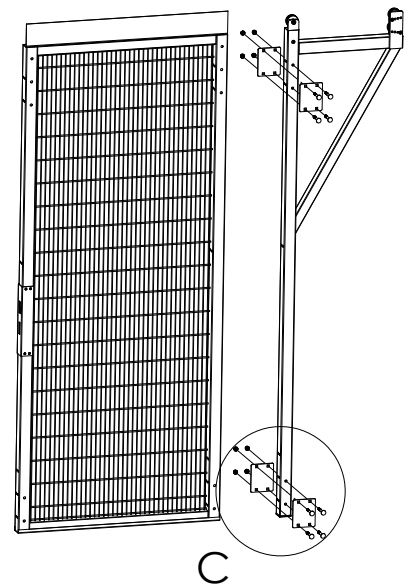
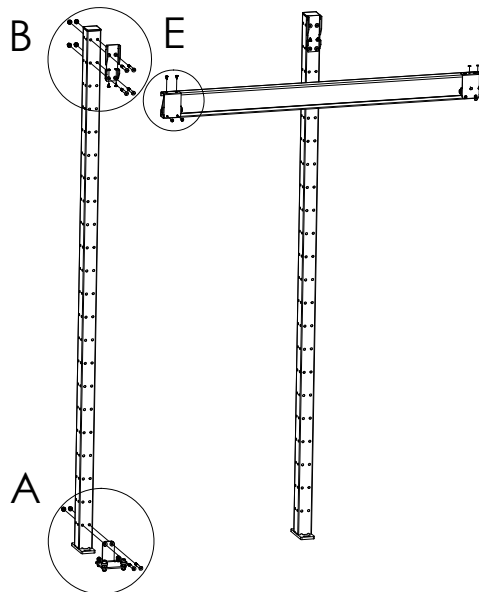
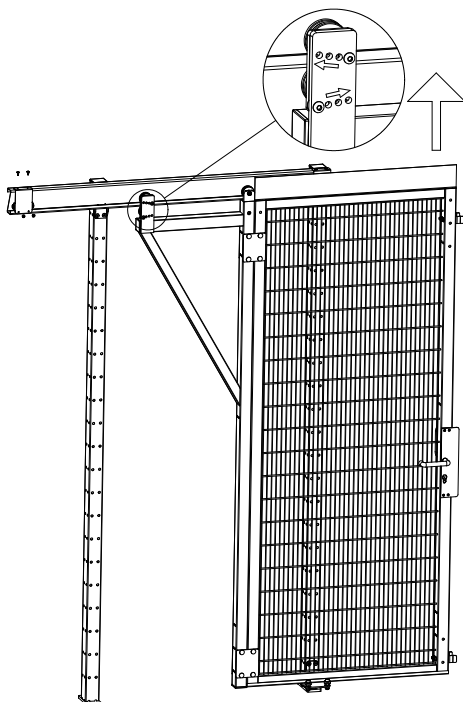
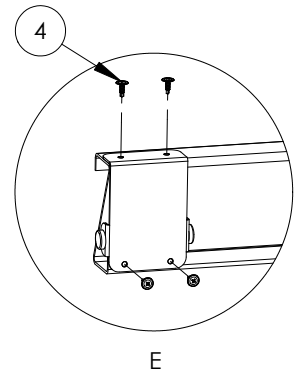
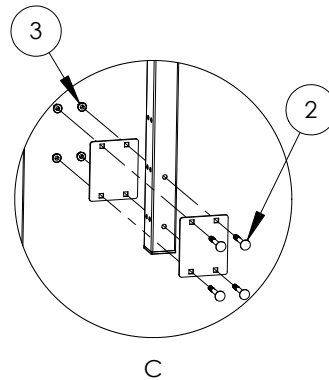
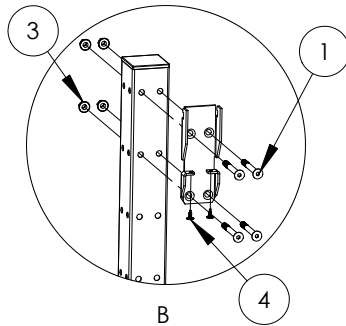
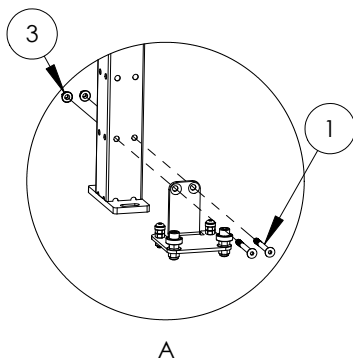
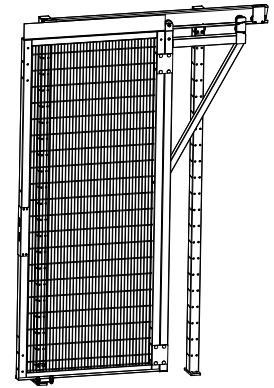
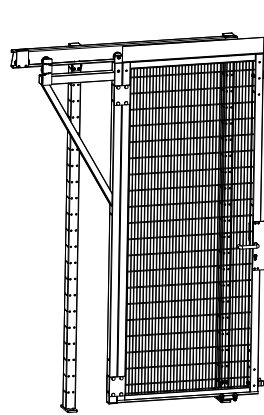
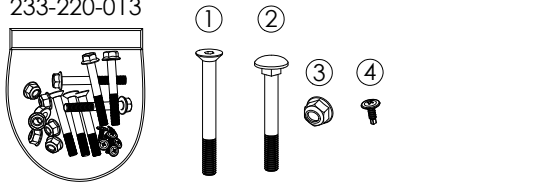
233-220-011



Double sliding door without top rail

Doppelschiebetür ohne obere Schiene

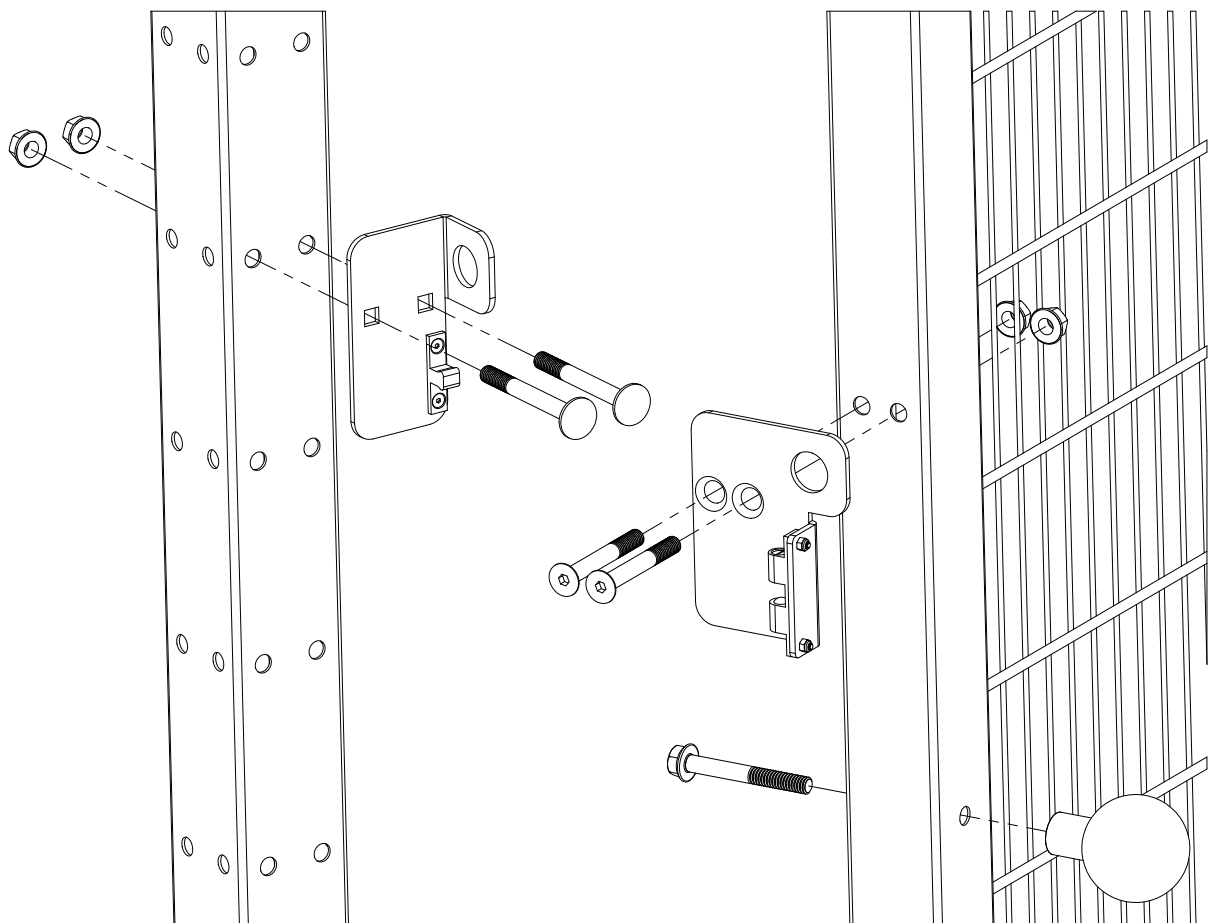
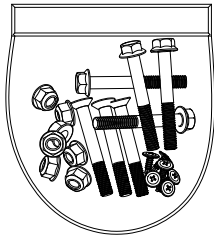
233-220-013



Padlock plates for single hinged door

Vorhängeschloss, Befestigung für Einzelschwenktür

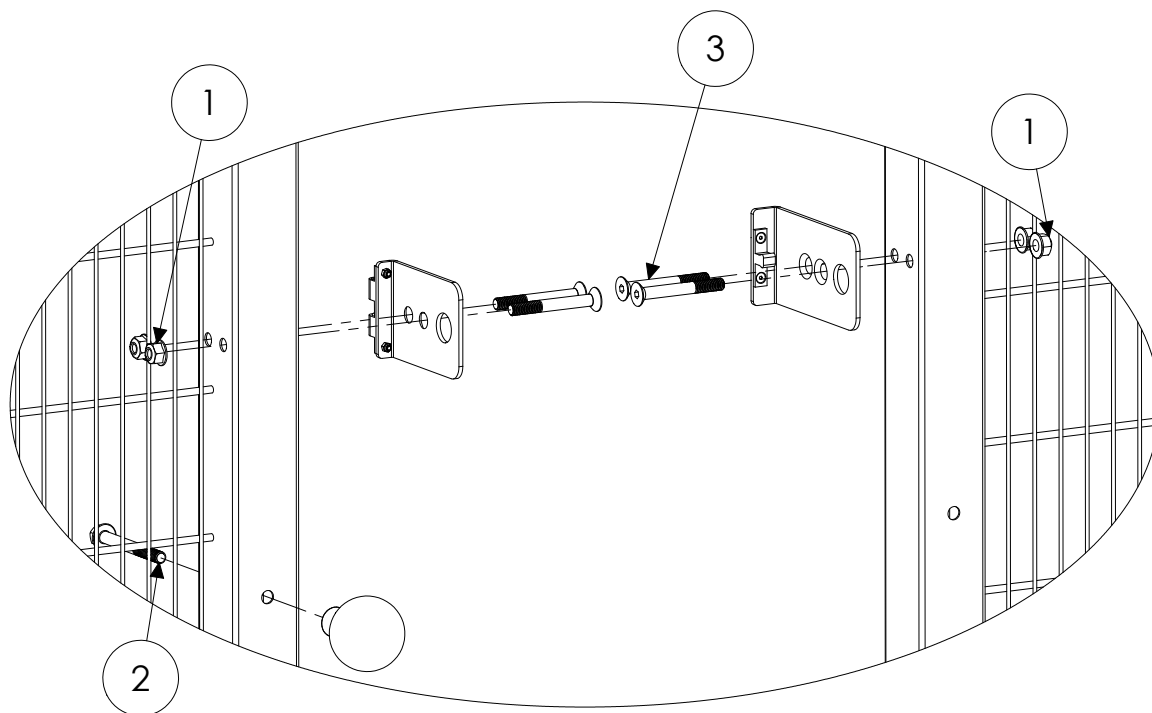
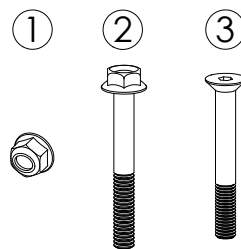
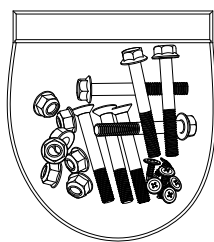
140-100-110



Padlock plates for double hinged door

Vorhängeschloss, Befestigung für
Doppelschwenktür

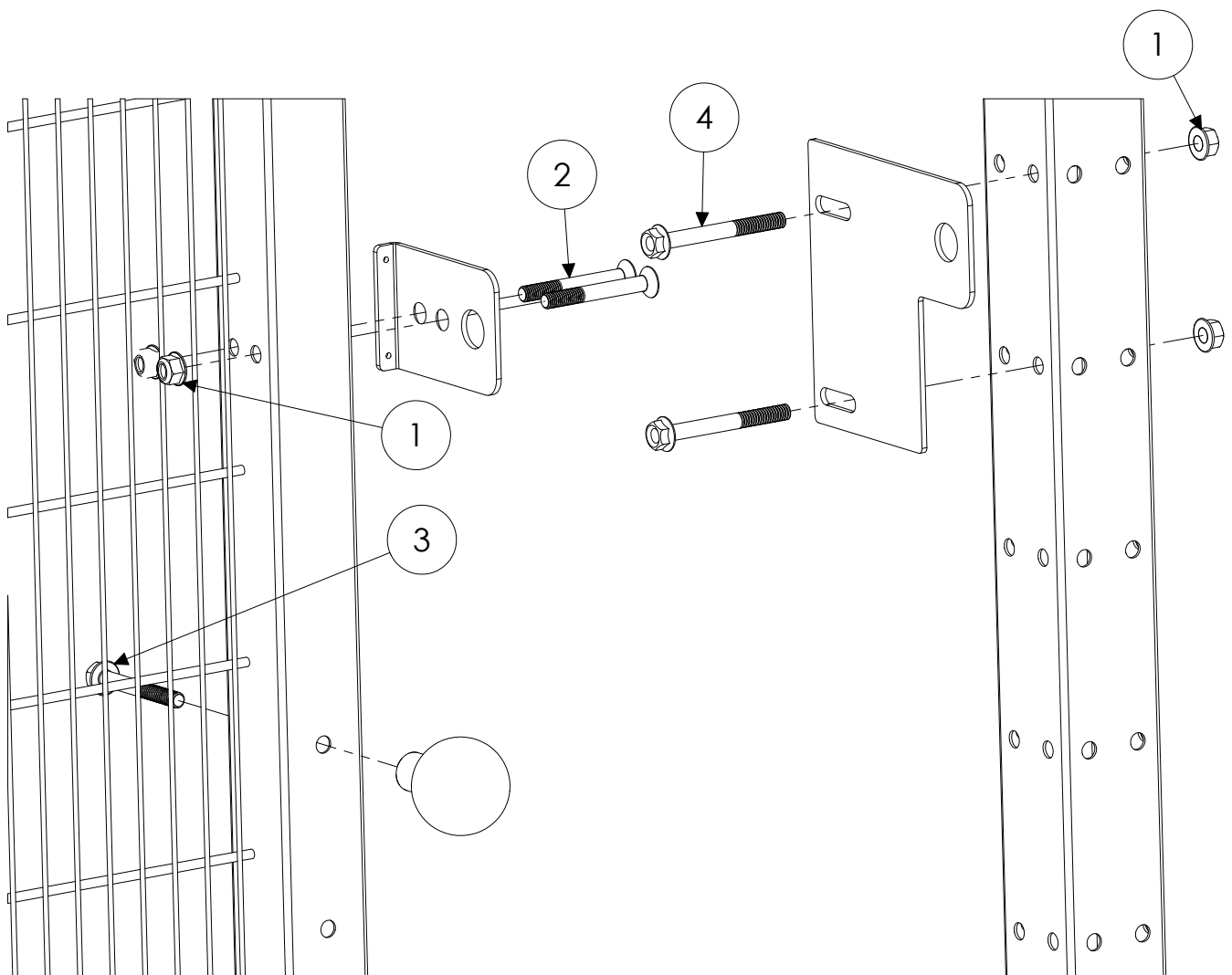
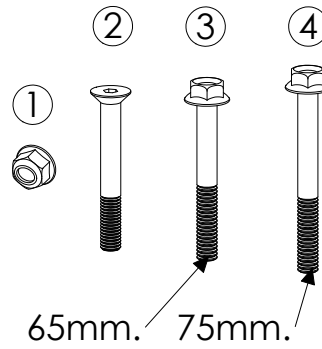
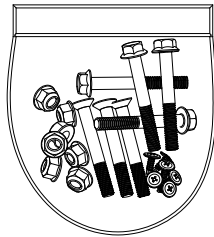
140-100-111



Padlock plates for single sliding door

Vorhängeschloss, Befestigung für Einzelschiebetür

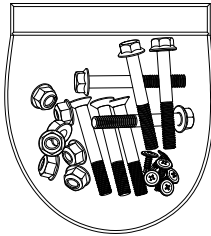
140-100-112



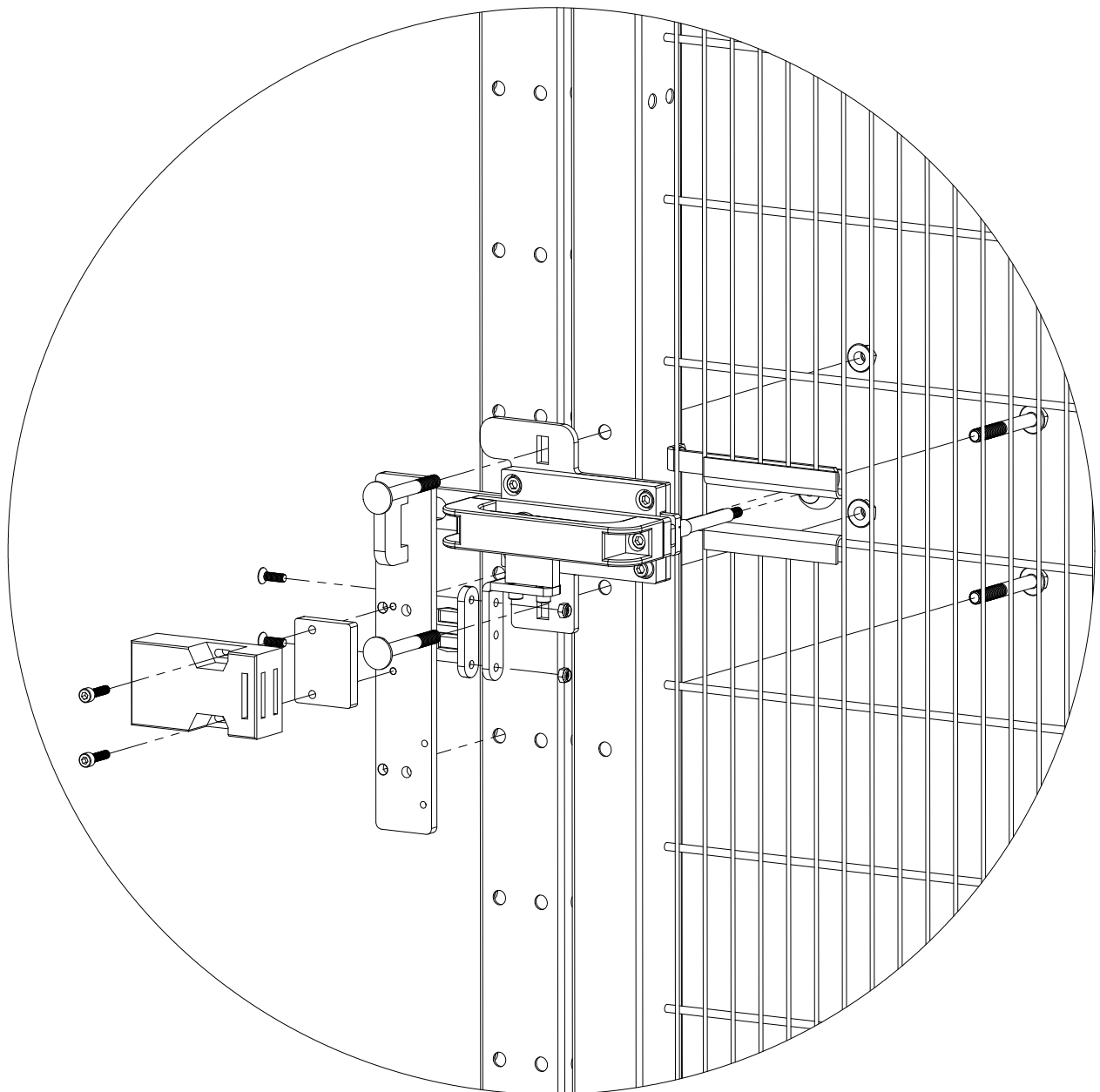
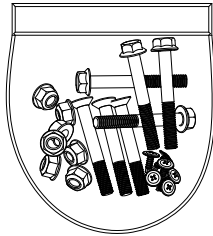
Cane bolt and switch fittings
Schmersal AZ 16

Schiebeschloss und Schalterbefestigung
Schmersal AZ 16

Left
140-100-101



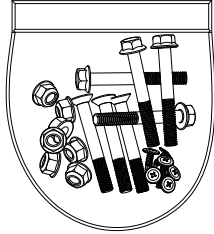
Right
140-100-102



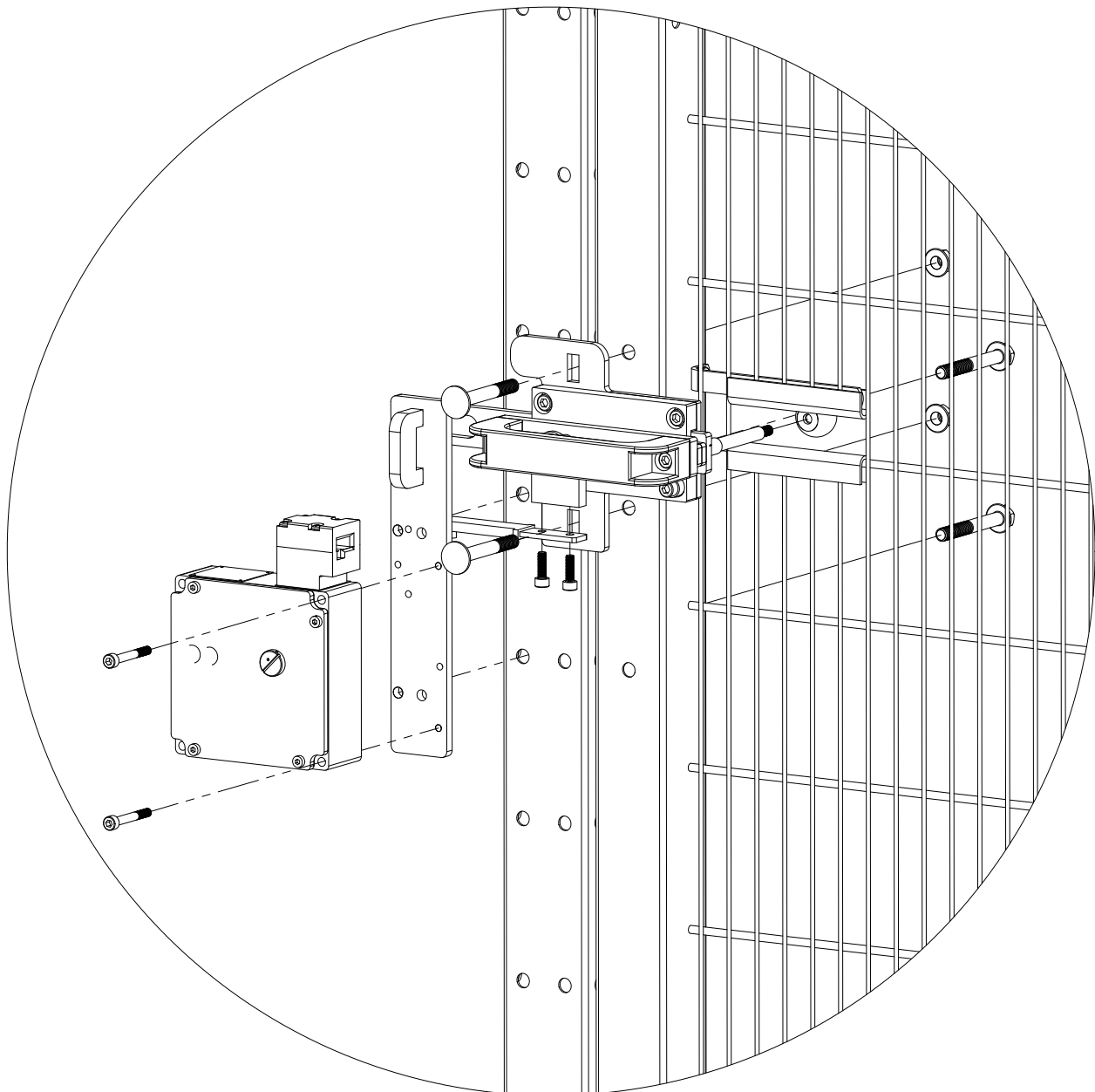
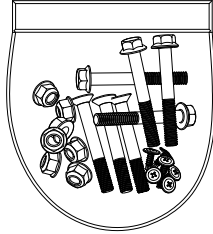
Cane bolt and switch fittings
Euchner TZ

Schiebeschloss und Schalterbefestigung
Euchner TZ

Left
140-100-103



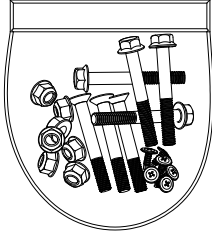
Right
140-100-104



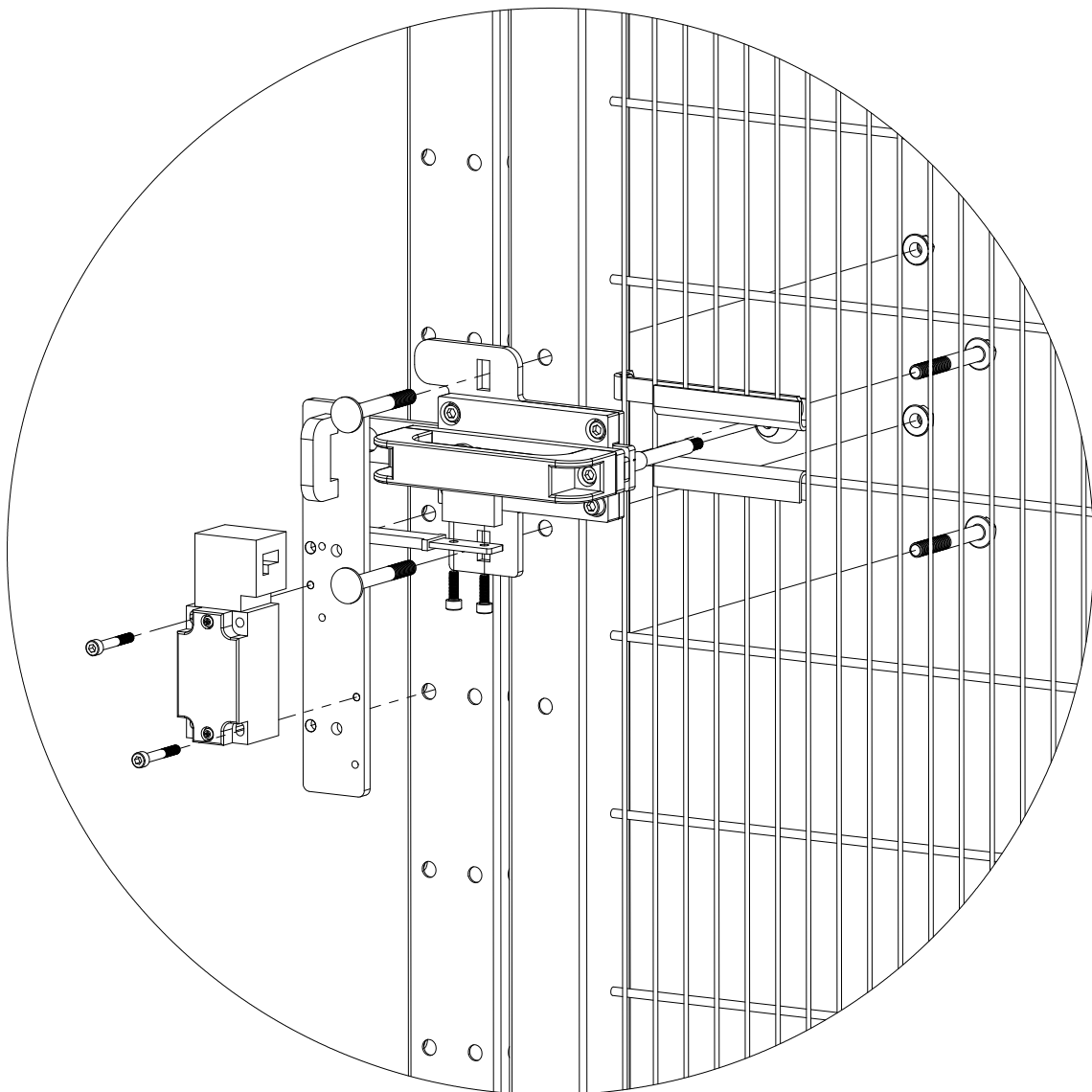
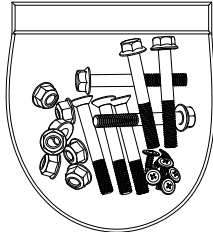
Cane bolt and switch fittings
Euchner NZ

Schiebeschloss und Schalterbefestigung
Euchner NZ

Left
140-100-105



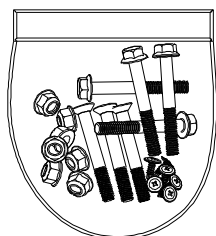
Right
140-100-106



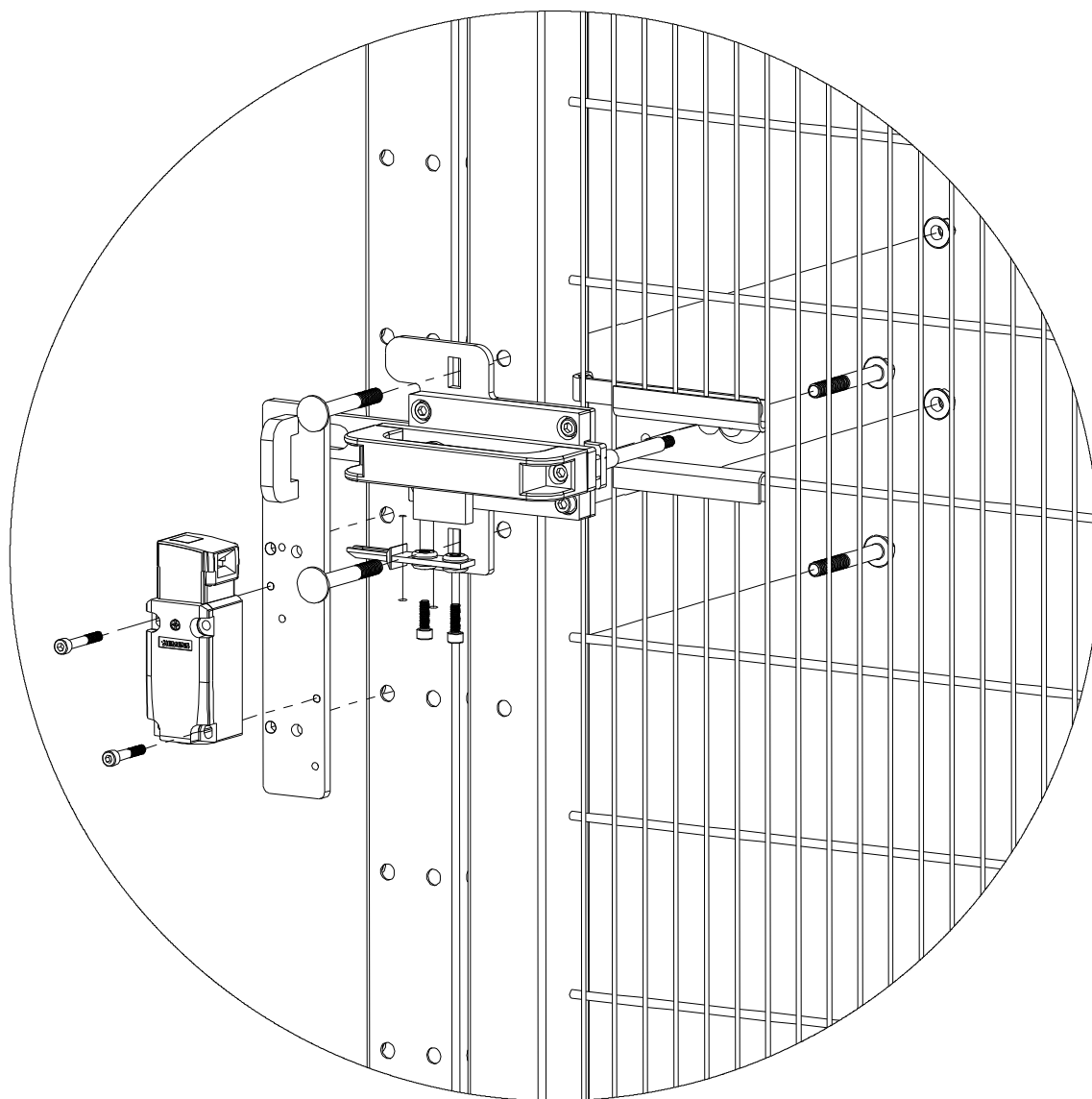
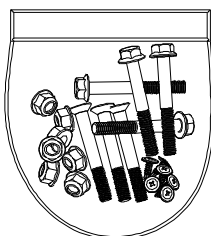
Cane bolt and switch fittings
Siemens 3SE5

Schiebeschloss und Schalterbefestigung
Siemens 3SE5

Left
140-100-107

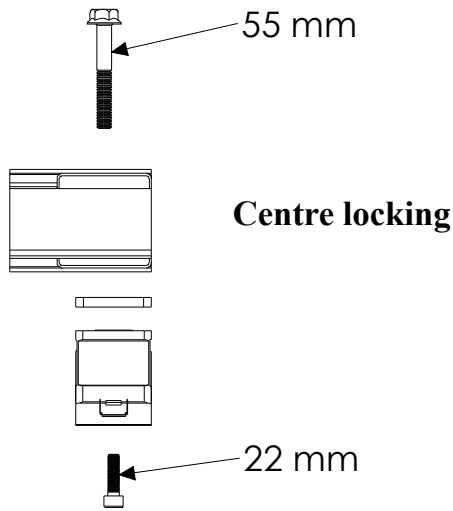


Right
140-100-108

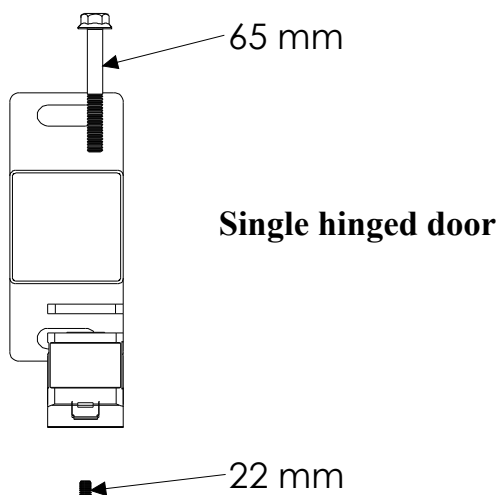
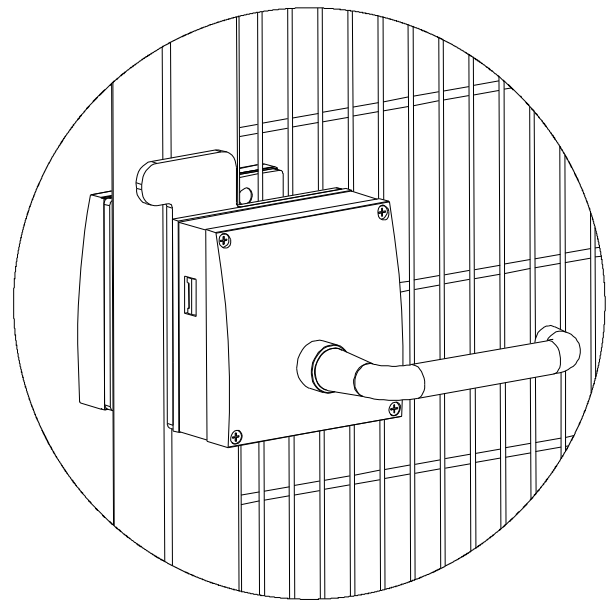
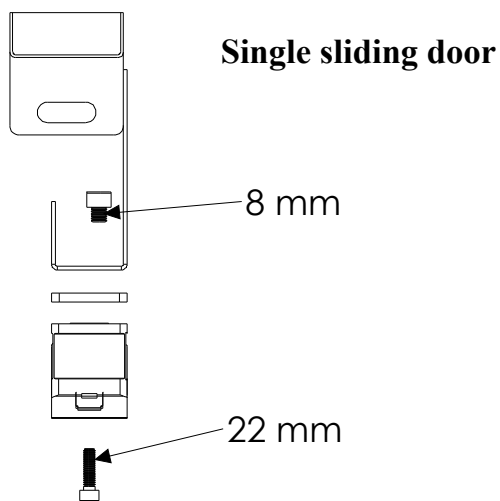
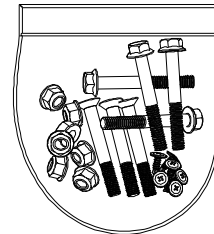


Switch fittings for Schmersal AZM 200

Schalterbefestigung für Schmersal AZM 200

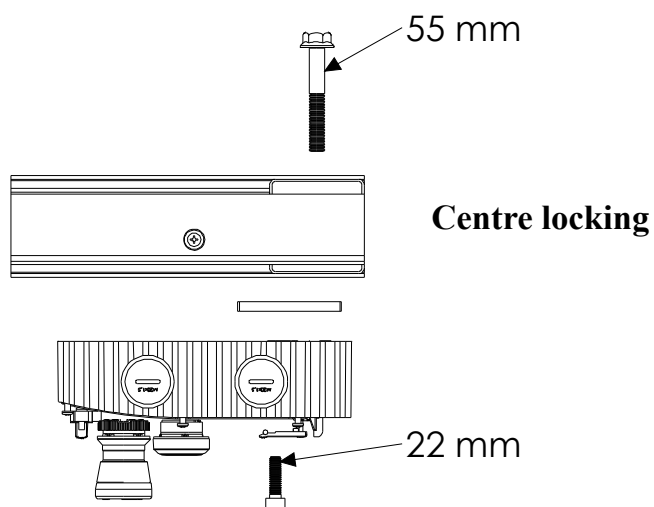


140-100-109

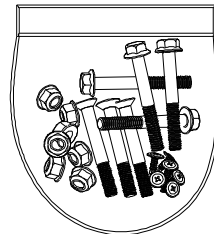


Switch fittings for Euchner MGB

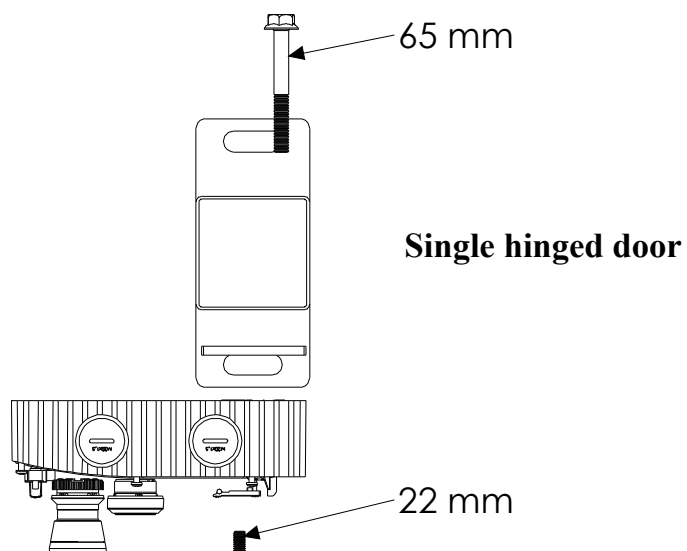
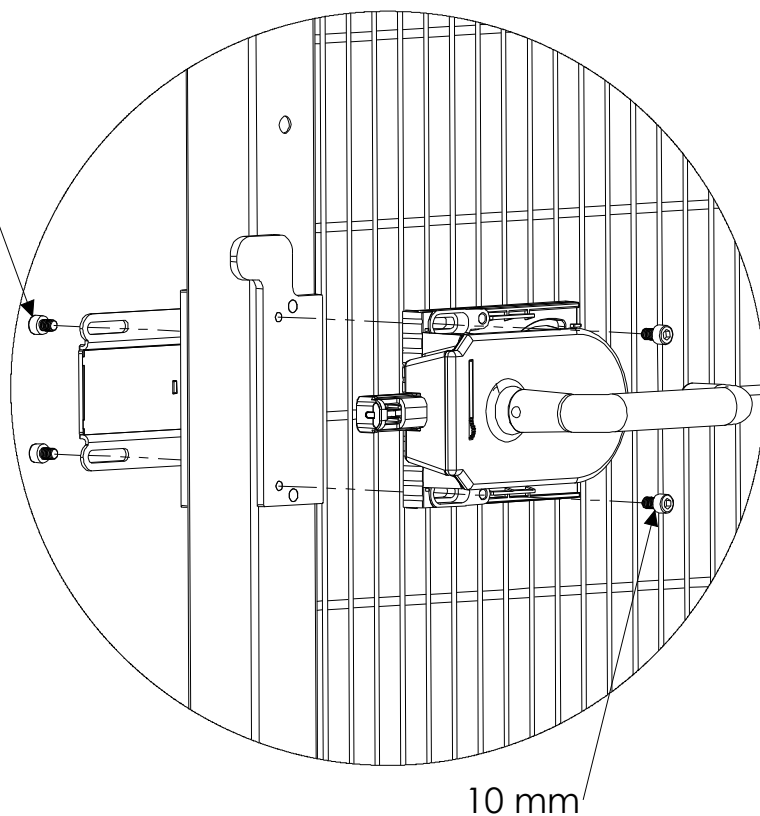
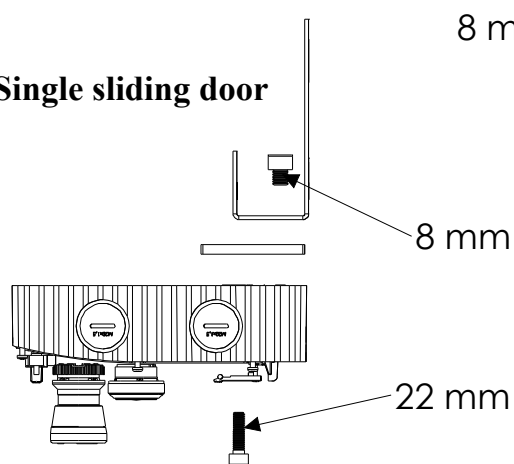
Schalterbefestigung für Euchner MGB



240-100-005

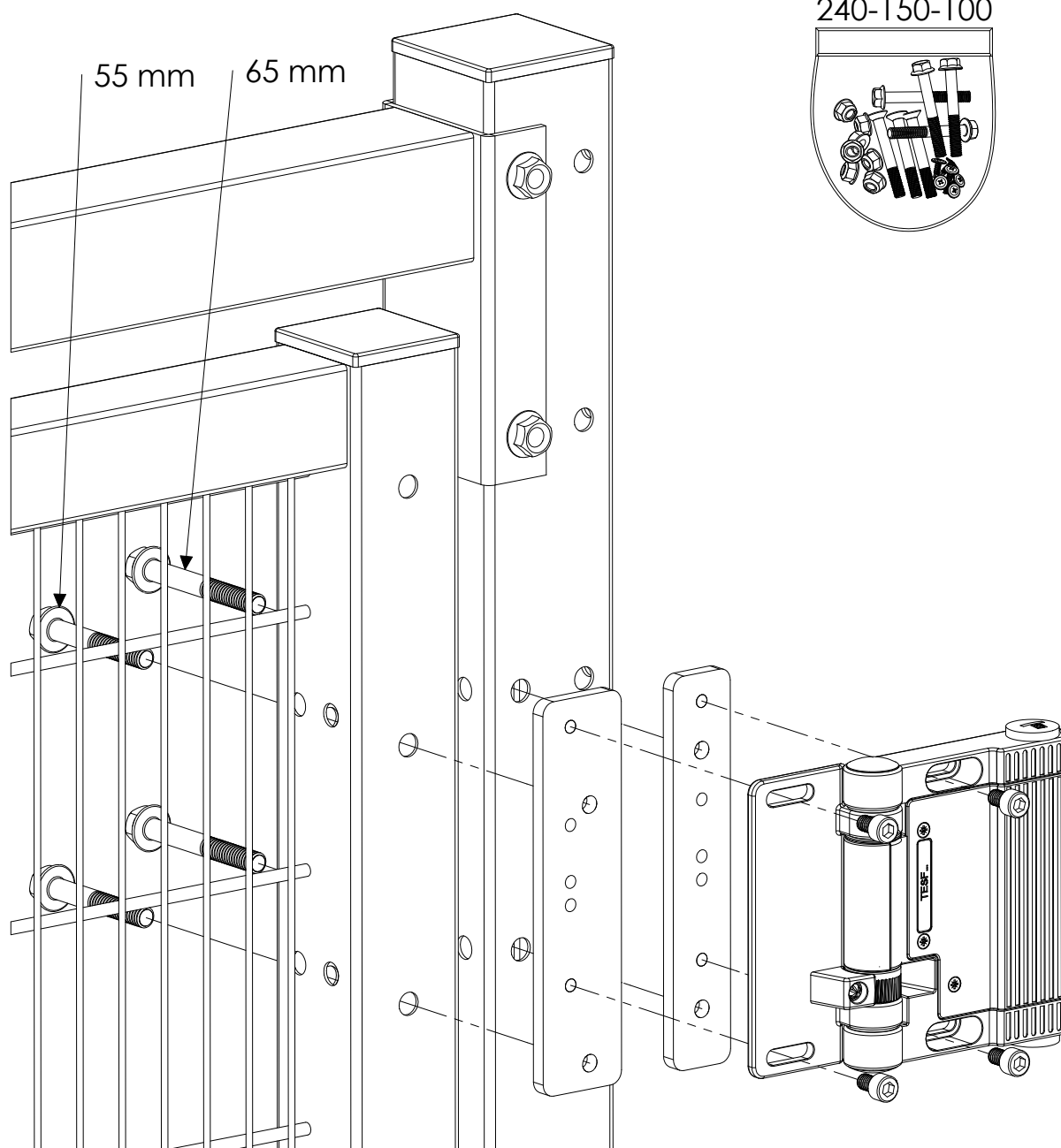


Single sliding door



Bracket for hinge safety switch,
Schmersal TVS 410

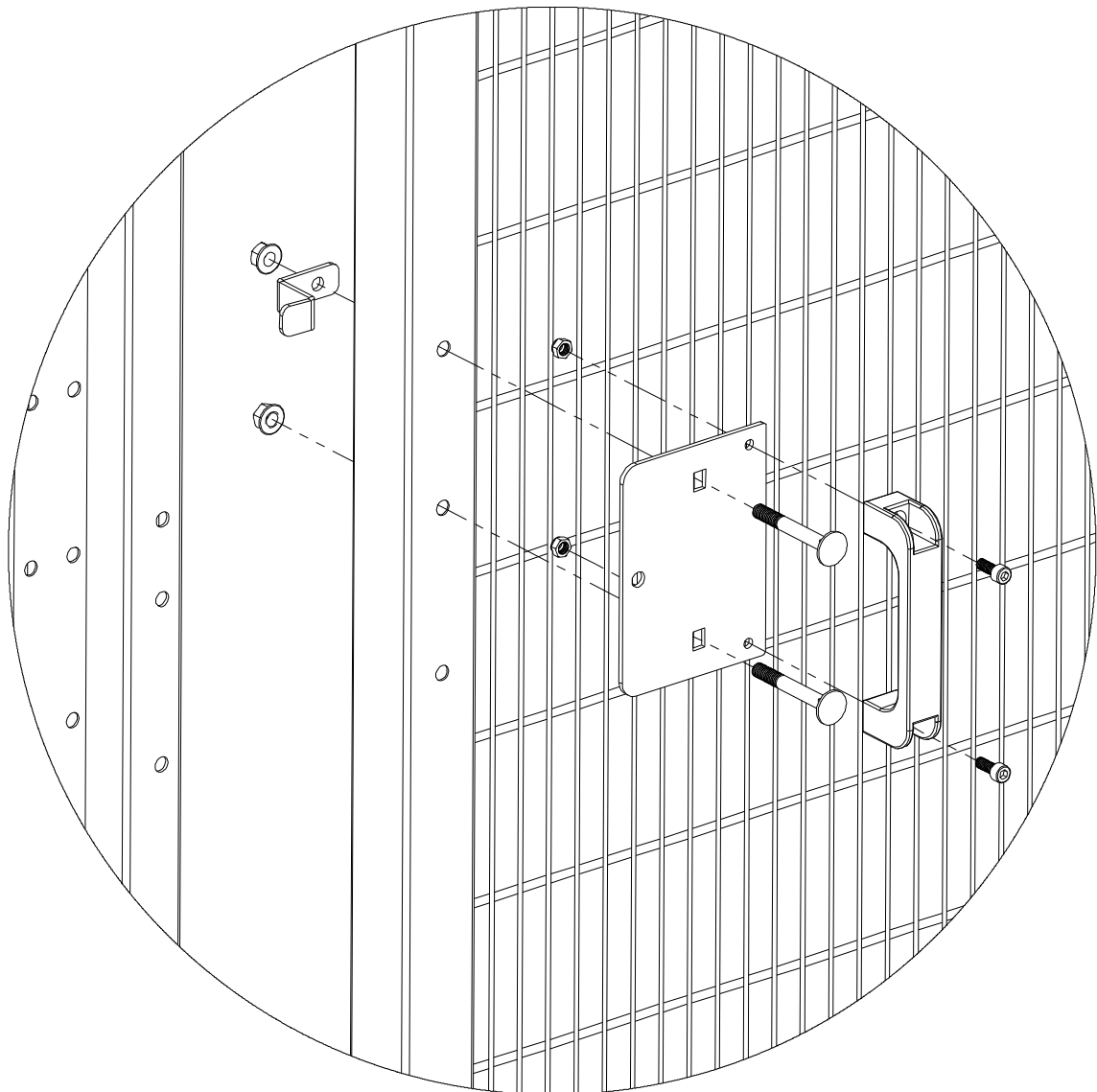
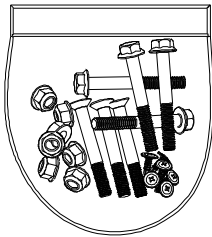
Befestigung für Schalterschaniere
Schmersal TVS 410



Handle for sliding door with switch

Griff für Schiebetür mit Schalter

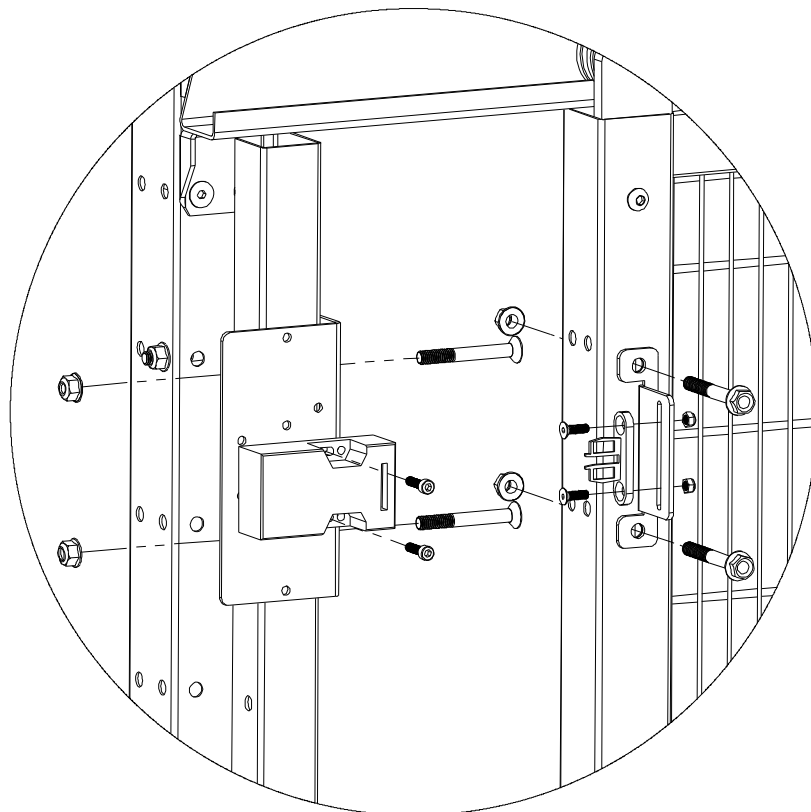
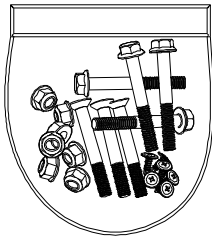
140-000-970



Switch fittings for sliding door
Schmersal AZ 16

Schalterbefestigung für Schiebetür
Schmersal AZ 16

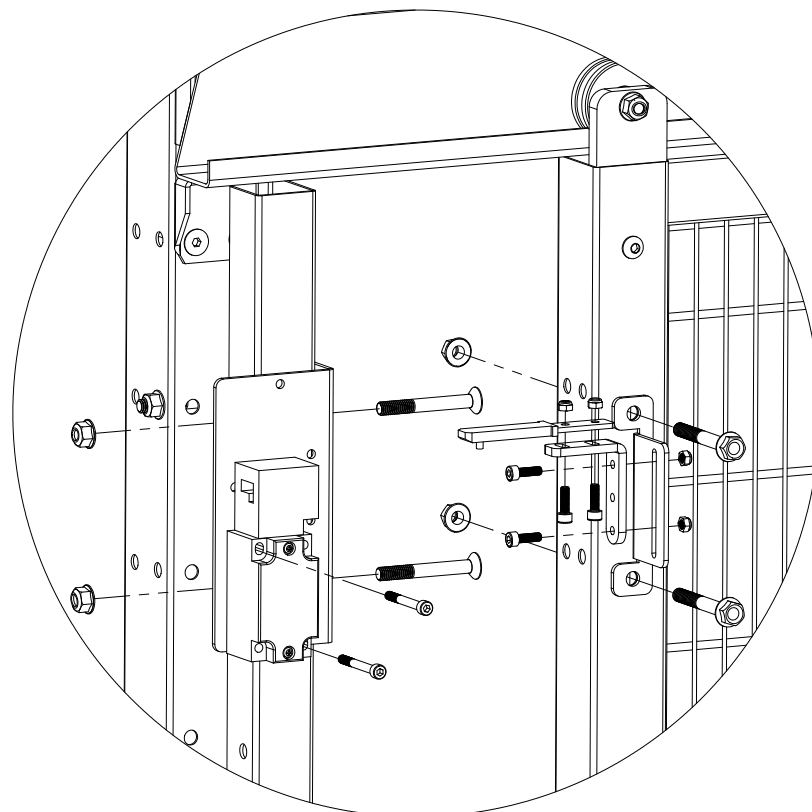
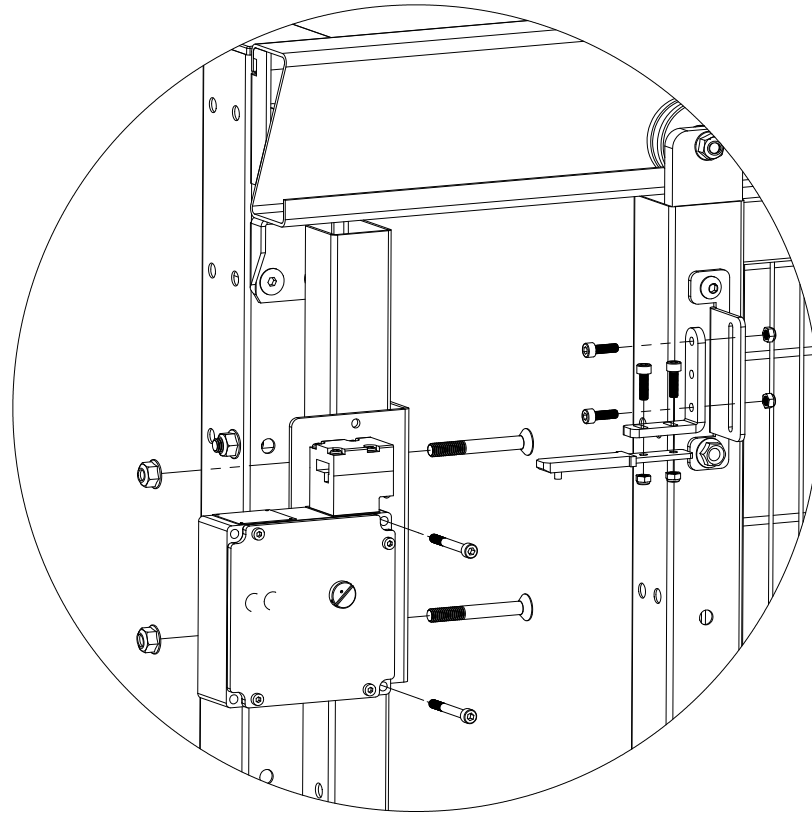
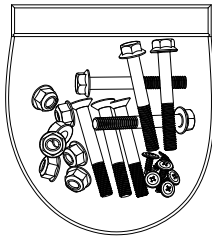
240-100-003



Switch fittings for sliding door
Euchner TZ and NZ

Schalterbefestigung für Schiebetür
Euchner TZ und NZ

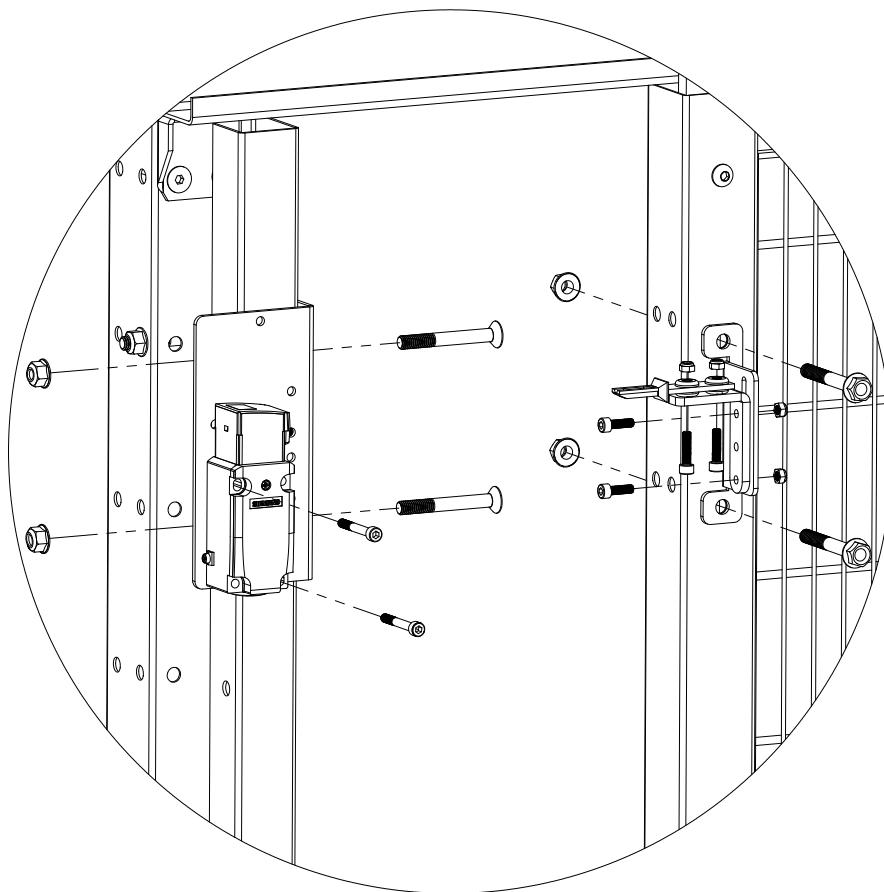
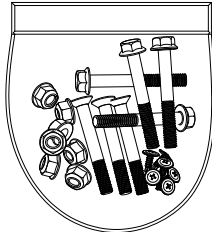
240-100-001



Switch fittings for sliding door
Siemens 3SE5

Schalterbefestigung für Schiebetür
Siemens 3SE5

240-100-004





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