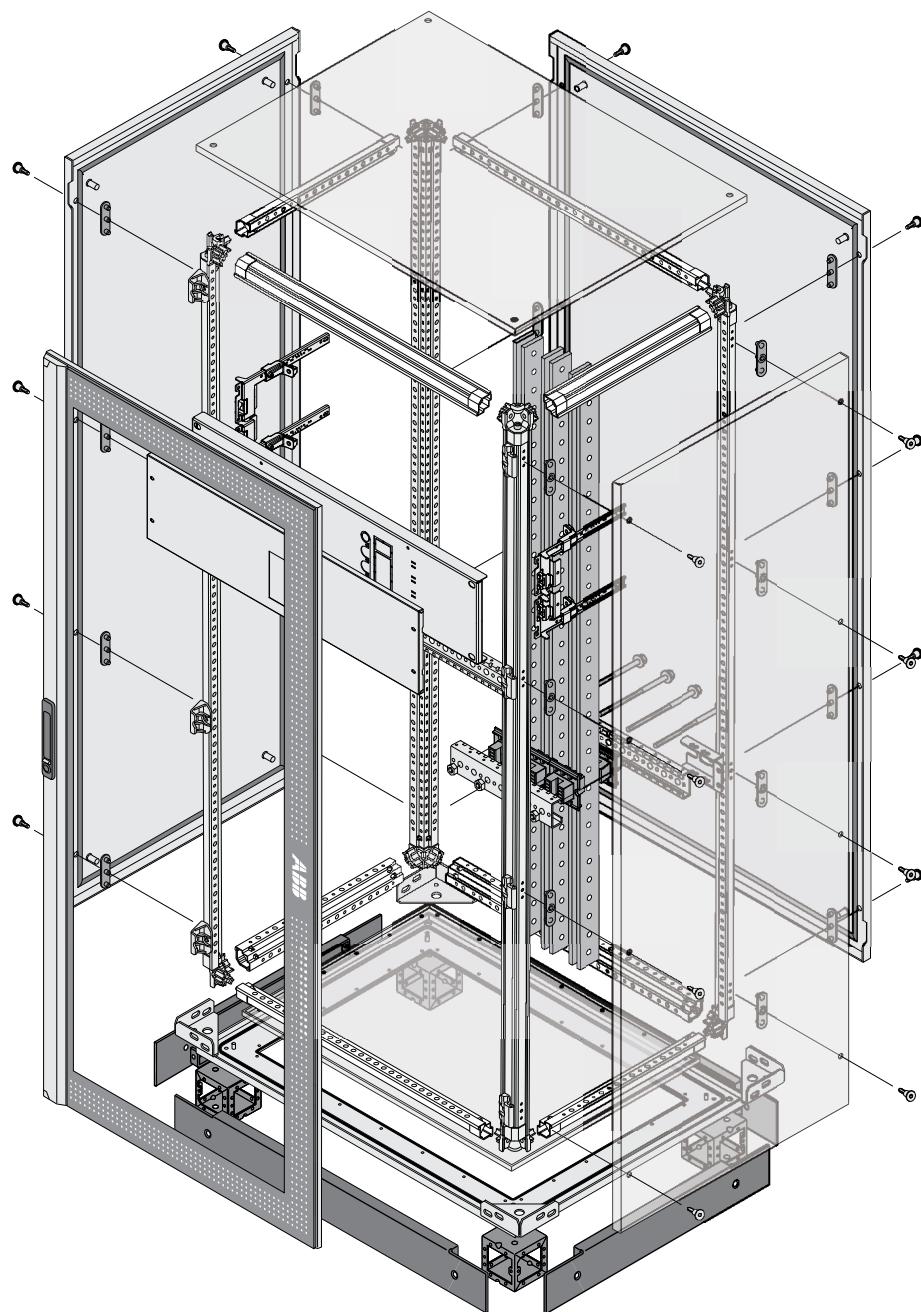


## INSTRUCTION HANDBOOK

**System pro E power**



## IT - ISTRUZIONI PER L'INSTALLAZIONE E LA MANUTENZIONE

Le operazioni di installazione, messa in servizio ed eventuale manutenzione ordinaria e straordinaria devono essere effettuate da personale qualificato, che abbia una conoscenza dettagliata dell'apparecchiatura. **ABB** declina ogni responsabilità per danni a cose e persone dovute alla mancata osservanza delle istruzioni contenute in questo documento. Per qualsiasi esigenza contattare **ABB**.

## GB - INSTALLATION AND MAINTENANCE INSTRUCTIONS

The operations for the installation, putting into service and routine and emergency maintenance of the unit must be performed by qualified personnel with a detailed knowledge of the unit.

**ABB** declines all responsibility for injury to people or damage to property resulting from a failure to comply with the instructions set out in this document. Don't hesitate to contact **ABB** for any further information you may require.

## DE - INSTALLATIONS- UND WARTUNGSANLEITUNGEN

Die Arbeiten für die Installation, Inbetriebnahme, Wartung und Instandsetzung müssen von Fachpersonal ausgeführt werden, das über eine eingehende Kenntnis des Geräts verfügt.

**ABB** haftet nicht für Schäden an Sachen oder Personen aufgrund der Missachtung der in den vorliegenden Veröffentlichung enthaltenen Anweisungen. Wenden Sie sich bitte für alle weiteren Fragen an **ABB**.

## FR - INSTRUCTIONS POUR L'INSTALLATION ET L'ENTRETIEN

Les opérations d'installation, de mise en service et, éventuellement, d'entretien ordinaire et extraordinaire doivent être effectuées par du personnel qualifié, ayant une connaissance approfondie de l'appareillage. **ABB** décline toute responsabilité en cas de dommages causés à des personnes ou des biens dus au non-respect des instructions contenues dans ce document. Pour toute exigence, contacter **ABB**.

## ES - INSTRUCCIONES DE INSTALACIÓN Y MANTENIMIENTO

Las operaciones de instalación, puesta en servicio y mantenimiento ordinario y extraordinario deben ser efectuadas por personal calificado, que posea un conocimiento del aparato. **ABB** declina toda responsabilidad por daños a cosas y personas debidos al incumplimiento de las instrucciones contenidas en este documento. Para cualquier exigencia ponerse en contacto con **ABB**.

## BG - ИНСТРУКЦИИ ЗА ИНСТАЛИРАНЕ И ПОДДРЪЖКА

Операциите по инсталациране, въвеждане в експлоатация и евентуална рутинна и извънредна поддръжка, трябва да се извършват от квалифициран персонал, които има задължения познания на апаратура. **ABB** не носи отговорност за щети на имущество или на хора, поради неспазване на инструкциите в този документ. При всяка нужда, свържете се с **ABB**.

## CS - POKYNY PRO INSTALACI A ÚDRŽBU

Úkony spojené s instalací, uvedením do provozu a případnou běžnou i mimořádnou údržbou musí být prováděny kvalifikovaným personálem, který je detailně seznámen se zařízením. **ABB** odmítá jakékoli odpovědnost za ublížení na zdraví osob a za škody na majetku v důsledku nedodržení pokynů uvedených v tomto dokumentu.

V případě jakýchkoli potřeb se obrátte na firmu **ABB**.

## DA - INSTRUKTIONER VEDRØRENDE INSTALLATION OG VEDLIGEHOLDELSE

Indgrebene i forbindelse med installation, ibrugtagning og eventuel almindelig og ekstraordinær vedligeholdelse skal udføres af kvalificeret personale med indgående kendskab til apparatet. **ABB** kan ikke gøres ansvarlig for materielle skader og kvaestelser som følge af manglende overholdelse af anvisningerne i dette dokument.

Kontakt **ABB** ved ethvert behov.

## EL - ΟΔΗΓΙΕΣ ΓΙΑ ΤΗΝ ΕΓΚΑΤΑΣΤΑΣΗ ΚΑΙ ΤΗ ΣΥΝΤΗΡΗΣΗ

Οι διαδικασίες εγκατάστασης, θέσης σε λειτουργία και η ενδεχόμενη τακτική και έκτακτη συντήρηση πρέπει να εκτελούνται από εξειδικευμένο προσωπικό, που γνωρίζει λεπτομερώς τη συσκευή.

**ABB** δεν φέρει καμία ευθύνη για τραυματισμούς σε ανθρώπους ή ζημιές που οφείλονται στην μη τήρηση των οδηγιών του παρόντος εγγράφου. Για οποιαδήποτε απαίτηση απευθυνθείτε στην **ABB**.

## ET - PAIGALDUS- JA HOOLDUSJUHEND

Paigaldus, tõökorda panek ja vajalikud jooksvaid ning erakorralised hooldustööd peavad olema läbi viitud kvalifitseeritud, seatet põhjalikult tundva, personali poolt. **ABB** ei vastuta selles dokumendis sisalduvate juhiste eiramisest põhjustatud kahjude eest asjadele või inimestele. Kõigis küsimustes võtke ühendust **ABB**-ga.

## FI - ASENNUUS- JA HUOLTO-OHJEET

Ainoastaan ammattitaitoine ja laittein perusteellisesti tunteva henkilö saa suorittaa asennustyöt, käyttöönoton ja määräikaisja erikoishuollot. **ABB** vapautuu kaikesta vastuusta materiaali- ja henkilövahinkojen osalta, jos ne ovat seurausta asiakirjan sisältämien ohjeiden noudattamattaa jättämisestä. Ota yhteys **ABB**-tyyppiseen kaikissa kysymyksissä.

## HR - UPUTE ZA INSTALACIJU I ODRŽAVANJEN

Poslove u vezi s instalacijom, puštanjem u rad i eventualnim redovnim i izvanrednim održavanjem mora obavljati kvalificirano osoblje koje detaljno poznaje uređaj. **ABB** ne preuzima nikavu odgovornost za materijalnu štetu i tjelesne ozljede do kojih je došlo zbog nepridržavanja uputa sadržanih u ovom dokumentu. Za sve eventualne dodatne informacije molimo kontaktirajte **ABB**.

## HU - TELEPÍTÉSI ÉS KARBANTARTÁSI UTASÍTÁSOK

A telepítési-, üzembe helyezési-, valamint az esetleges rutin- és rendkívüli karbantartási munkálatakat kizárálag a készüléket alaposan ismerő szakemberek végezhetik! Az **ABB** nem vállal felelősséget a jelen dokumentumban szereplő utasítások figyelmen kívül hagyása miatt bekövetkező dologi és személyi károkért! Bármiény kérdez esetén kérjük, vegye fel a kapcsolatot az **ABB** vállalattal!

## LT - INSTALAVIMO IR PRIEŽŪROS NURODYMAI

Irenginiu instaliuoti, įjungti, reguliariai tikrinti ar patikrinti nenumatyti atveju privalo tik kvalifikuoti asmenys, kurie gerai susipažinę su šiuo irenginiu. Jei nesilaikoma šiam dokumente aprašytu nurodymu, „**ABB**“ neatstačiai už žmonėms ar turtui padarytą žalą. Dėl papildomos informacijos galite kreiptis į „**ABB**“.

## LV - UZSTĀDIŠANAS UN APKOPES INSTRUKCIJAS

Darbības, kas saistītas ar uzstādišanu, lietošanu, standarta un ārkārtas apkopi, ir jāveic kvalificētam speciālistam, kuram ir detalizētas ziņšanas par ierici.

**ABB** neuzņemas nekādu atbildību par personas veselībai vai mantai nodarīto kaitējumu, kas radies, neievērojot šī dokumenta instrukcijas.

Ja Jums ir nepieciešama palīdzība, lūdzam sazināties ar **ABB**.

## NL - AANWIJZINGEN VOOR DE INSTALLATIE EN HET ONDERHOUD

De handelingen voor de installatie, inbedrijfstelling en gewoon en buitengewoon onderhoud moeten verricht worden door vakbekwaam personeel, met gedetailleerde kennis van het apparaat.

**ABB** kan niet aansprakelijk gesteld worden voor schade of letsel veroorzaakt door de niet inachtneming van de aanwijzingen in dit document. Voor nadere informatie contact opnemen met **ABB**.

## NO - INSTRUKSJONER FOR INSTALLASJON OG VEDLIKEHOLD

Installasjon, idriftsettelse og eventuelle ordinært og ekstraordinært vedlikehold må utføres av kvalifisert personale med veldig godt kjennskap til apparatet. **ABB** fraskriver seg ethvert ansvar for skader på gjenstander og personer som skyldes manglende overhold av instruksjonene i dette dokumentet. Kontakt **ABB** ved behov.

## PL - INSTRUKCJA INSTALOWANIA I KONSERWACJI

Czynności instalowania, przekazania do eksploatacji oraz konserwacji okresowych i awaryjnych aparatu muszą być wykonywane przez wykwalifikowany personel znający dokładnie dany aparat.

Firma **ABB** nie ponosi żadnej odpowiedzialności za obrażenia osób lub uszkodzenie mienia powstałe wskutek nie przestrzegania instrukcji podanych w niniejszym dokumencie. W przypadku potrzeby uzyskania dodatkowych informacji prosimy skontaktować się z firmą **ABB**.

## PT - INSTRUÇÕES PARA A INSTALAÇÃO E A MANUTENÇÃO

As operações de instalação, activação e eventual manutenção ordinária e extraordinária devem ser efectuadas por pessoal qualificado, com um conhecimento detalhado da aparelhagem. A **ABB** declina qualquer responsabilidade por danos a coisas e pessoas devido à inobservância das instruções contidas neste documento.

Para qualquer informação, contactar a **ABB**.

## RO - INSTRUCȚIUNI DE INSTALARE ȘI ÎNTREȚINERE

Operațiunile de instalare, punere în funcționare și eventuală întreținere obișnuită și extraordinară trebuie să fie efectuate de către un personal calificat, care să cunoască în detaliu echipamentul.

**ABB** declină orice responsabilitate privind daunele cauzate bunurilor și persoanelor, datorită nerespectării instrucțiunilor din prezentul document. Pentru orice alte nelâmuriri, contactați **ABB**.

## SK - POKYNY PRE INŠTALÁCIU A ÚDRŽBU

Úkony spojené s inštalačiou, uvedením do prevádzky a prípadnou bežnou i mimořádnou údržbou musia byť vykonávané kvalifikovaným technikom, ktorý je detailne oboznámený so zariadením.

**ABB** odmietá akúkolvek zodpovednosť za ublženie na zdraví osôb a za škody na majetku na dôsledku nedodržania pokynov uvedených v tomto dokumente. V prípade akýchkoľvek potrieb sa obráťte na firmu **ABB**.

## SL - NAVODILA ZA MONTAŽO VNZDRŽEVANJE

Postopke montaže, dajanja v obratovanje in morebitnega rednega in izrednega vzdrževanja mora opravljati usposobljeno osebje, ki napravo podrobno pozna. **ABB** zavrača vsako odgovornost za poškodbe ljudi ali stvari, ki so posledica neupoštevanja navodil v tem dokumentu.

V primeru potrebe se obrnite na **ABB**.

## SV - INSTALLATIONS- OCH UNDERHÅLLSANVISNING

Installationsmomenten, igångsättningen och eventuella ordinära och extraordnära underhåll ska utföras av kvalificerad personal som har en detaljerad kännedom om apparaten.

**ABB** avsäger sig allt ansvar för skador på saker och personer som orsakats på grund av bristande uppmärksamhet för anvisningarna i detta dokument. Kontakta **ABB** för alla typer av problem.

## TK - KULLANIM VE BAKIM YÖNERGELERİ

Kurulum, hizmet alma ve olası olağın ve olajanüstü bakım işlemeleri, teçhizat hakkında detaylı bilgi olan kalifiye personel tarafından实施ülmelidir.

**ABB**, işbu belgede yer alan yonergelere uyulmamasından dolayı insan ya da nesnelerde meydana gelebilecek zararlardan dolayı sorumluluk kabul etmemektedir.

Her türlü ihtiyaç durumunda **ABB** ile temasla geçin.

## RU - ИНСТРУКЦИЯ ПО УСТАНОВКЕ И ТЕХОБСЛУЖИВАНИЮ

Все операции по установке, вводу в эксплуатацию, текущему и внеплановому ремонту должны выполняться квалифицированным персоналом, подробно ознакомленным с прибором.

Фирма **ABB** снимает с себя всякую ответственность за повреждения, причиненные людям и/или предметам из-за несоблюдения указаний настоящей инструкции.

Для любого вопроса обратитесь к **ABB**.

## ZH - 安装及维护指南

断路器装置的安装、操作、常规维护及紧急维修工作必须由熟悉本装置的指定的专业技术人员来完成。

若因不遵守以上操作规程而发生人员或财务受伤、受损，**ABB**概不负责。

若需要其他资料或信息，请随时与**ABB**联系。

**AR - إرشادات التركيب والصيانة**  
على كل من يتركيب ويدعى التشغيل والصيانة العلية والاحتياطية المختصة هي مصليت يجب أن تقتصر على  
يد طقم عمل متخصص ومؤهل يذكر على دراية تفصيلية بالجهاز وجميع مكوناته.  
**ABB** مسؤولة عنها آية أضرار أو ثغرات قد تسبب الأذى أو الأشياء جراء عدم احترام التعليمات والإرشادات والتوجيهات الواردة في هذه الوثيقة.  
 عند الضرورة اتصل بشركة **ABB**

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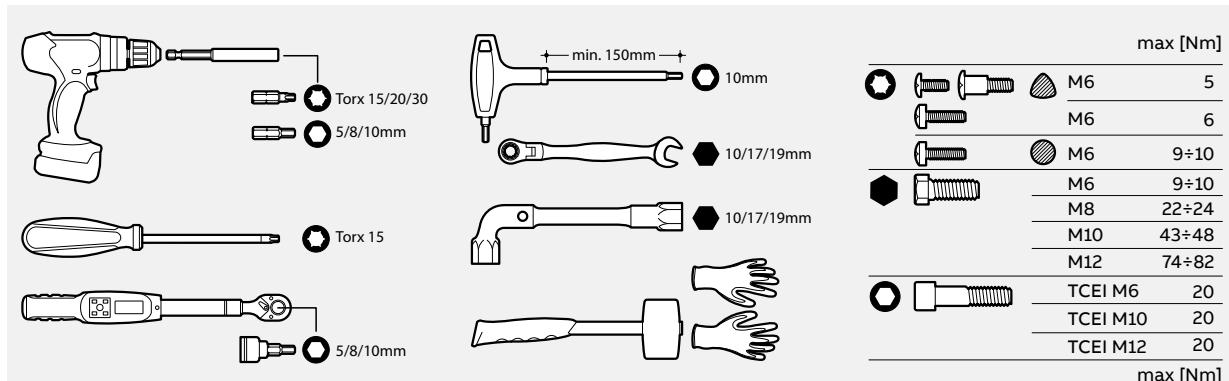
5  
**EXAMPLES OF USE**



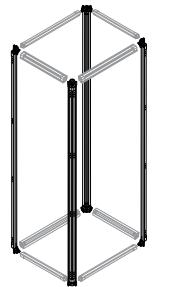
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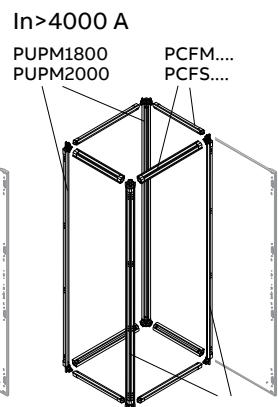
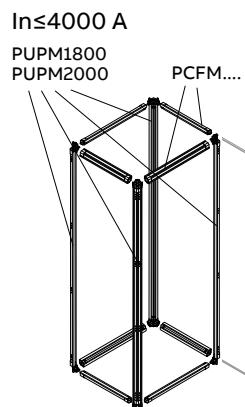


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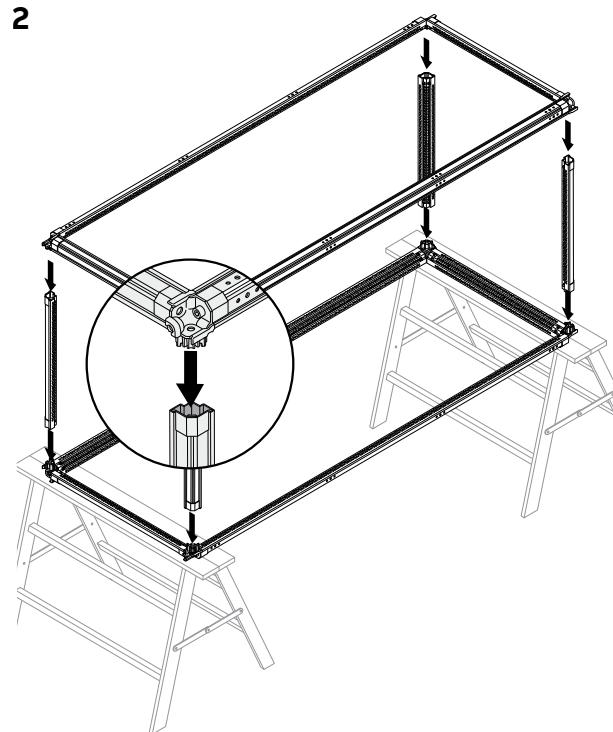
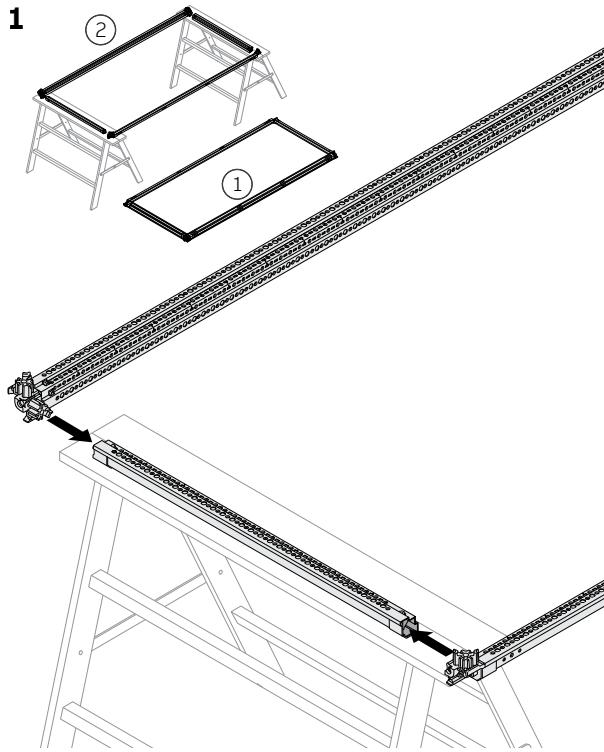
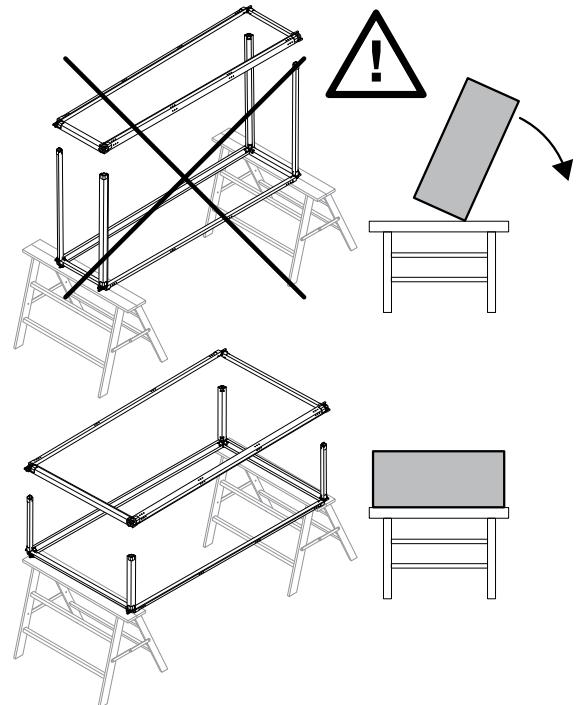


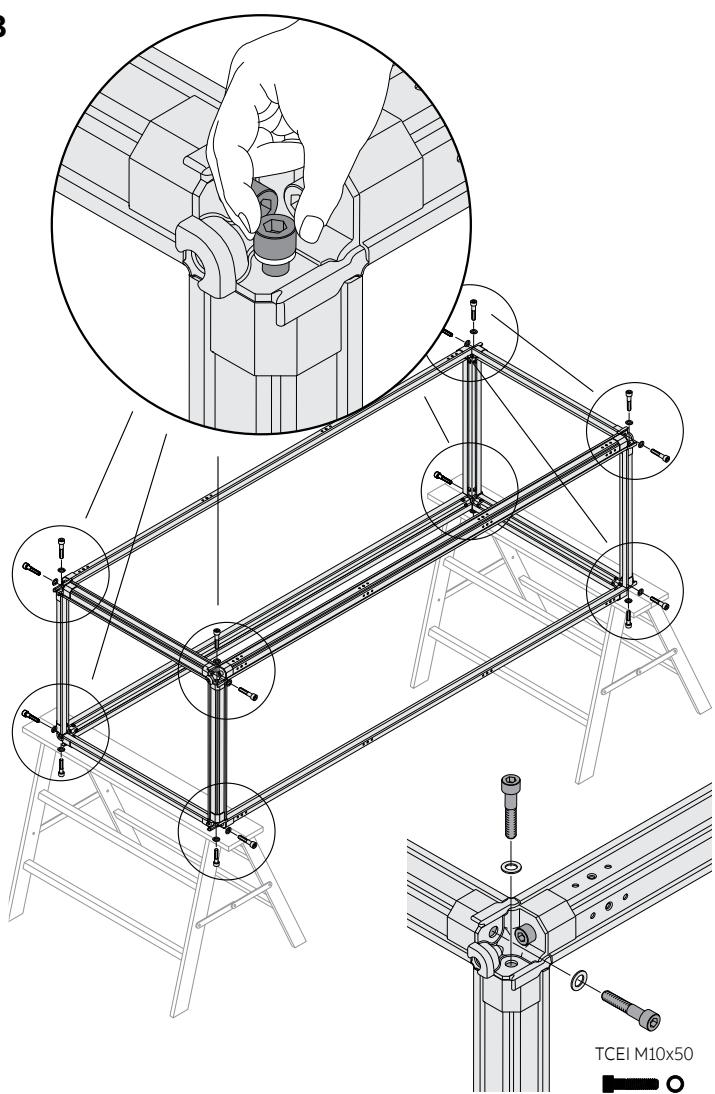
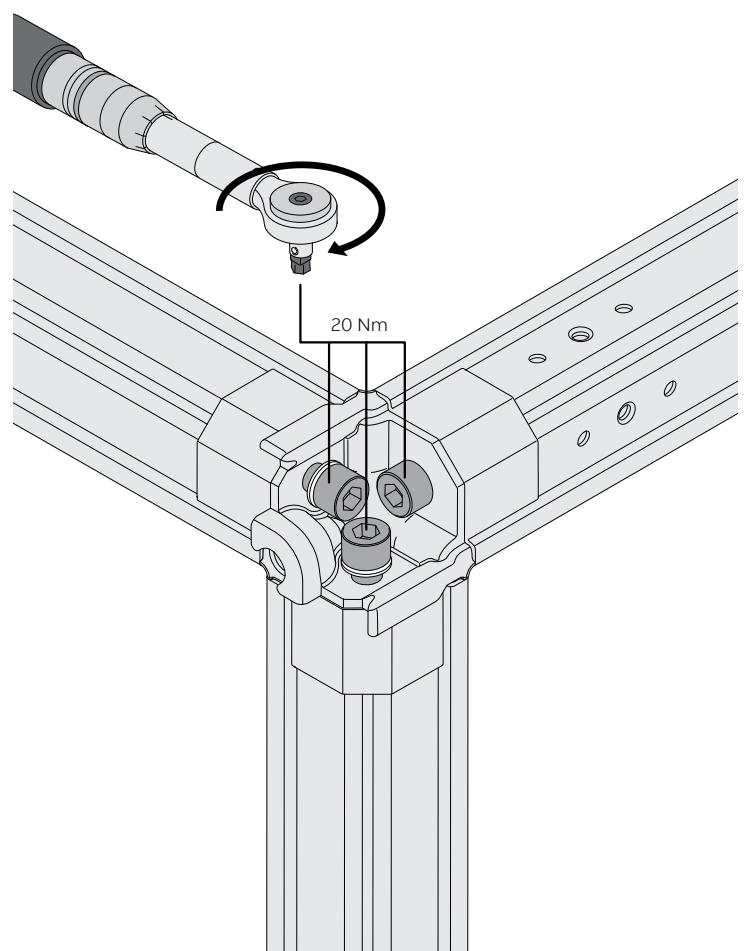
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16x M10

PCFM.... + PCFM....  
PCFS.... + PCFS....

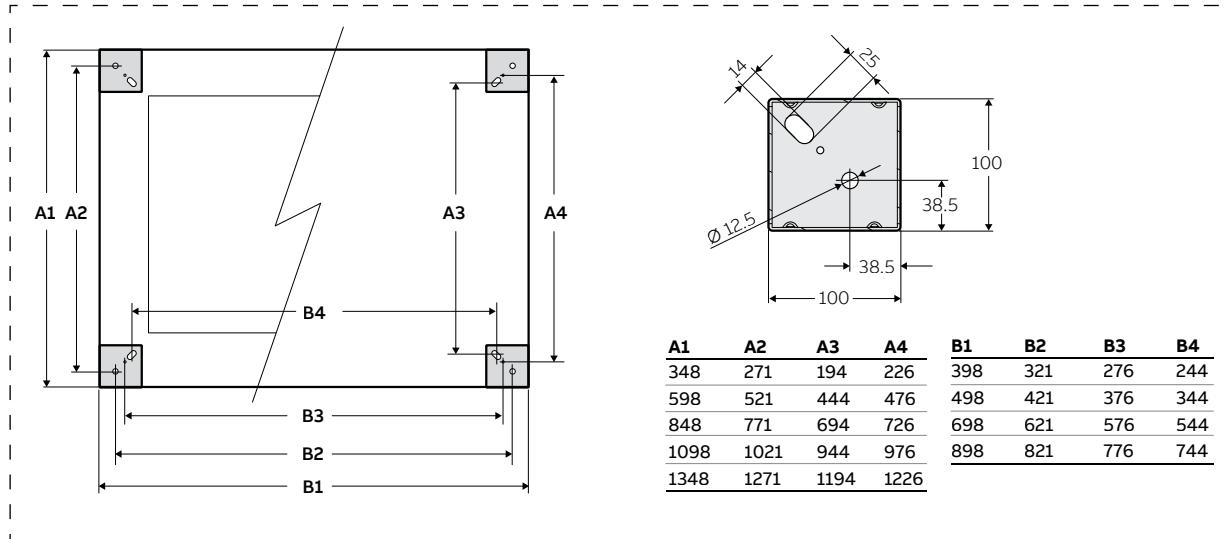
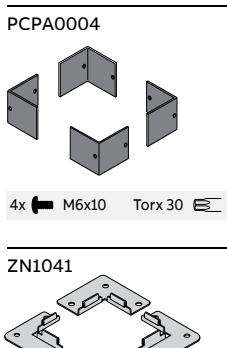
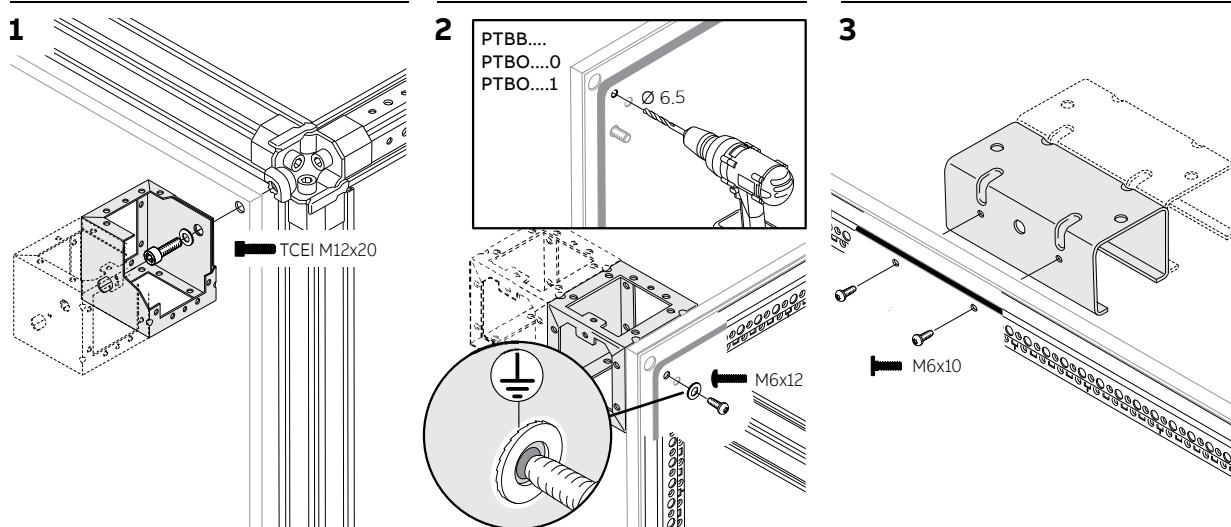
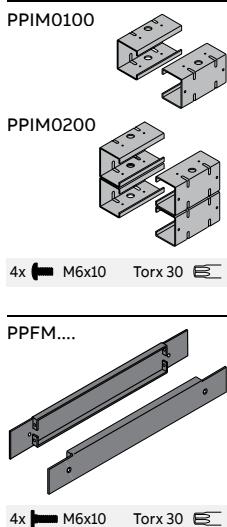
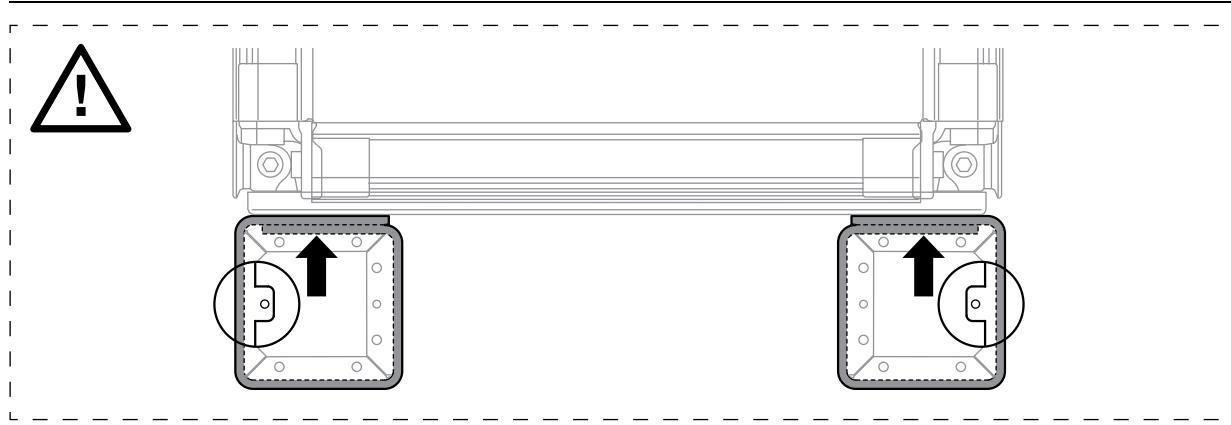
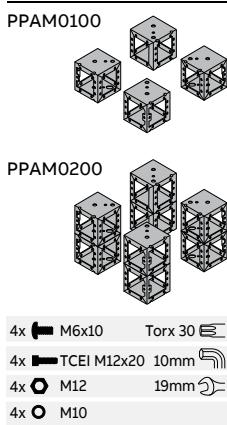
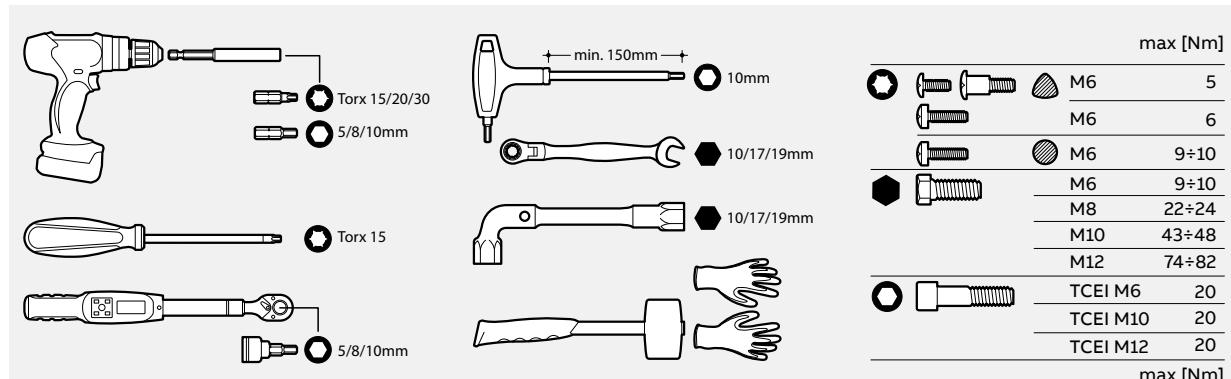


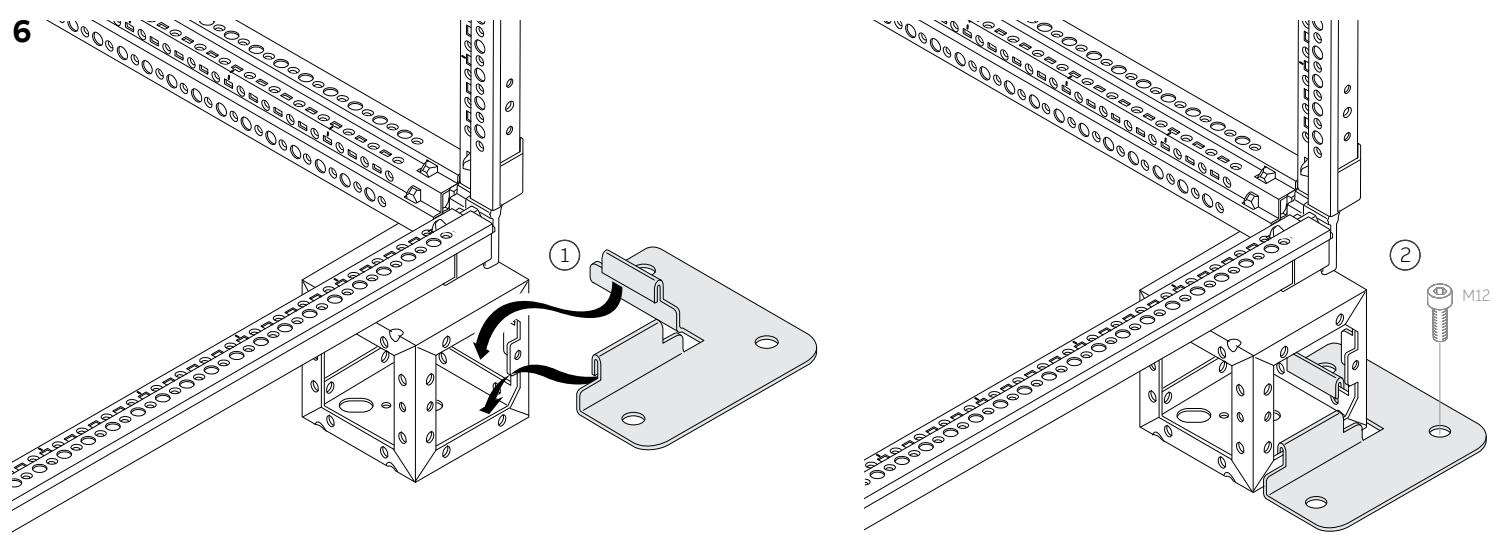
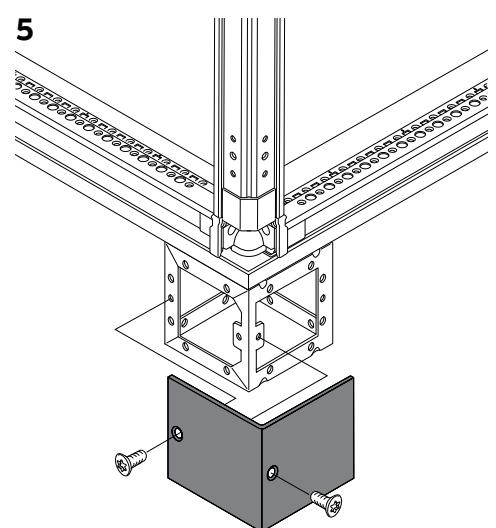
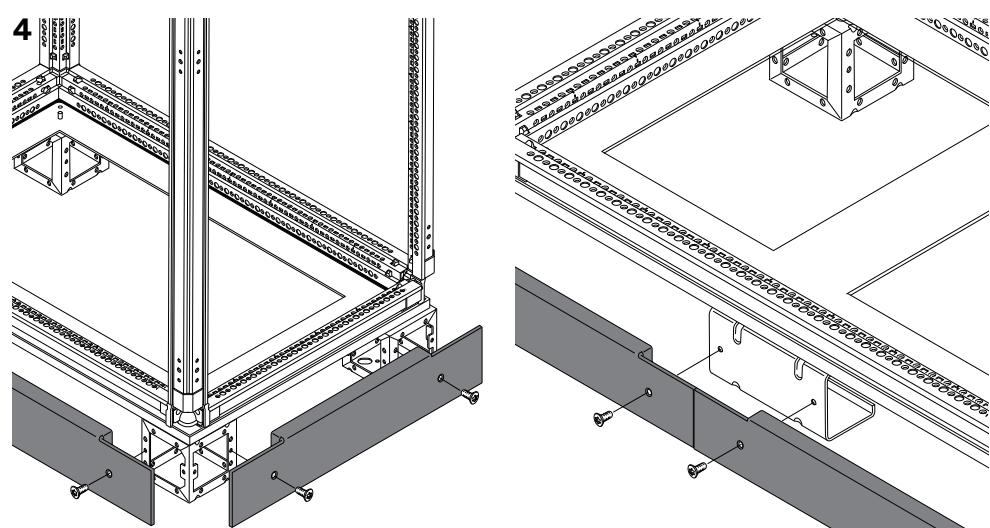
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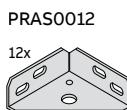
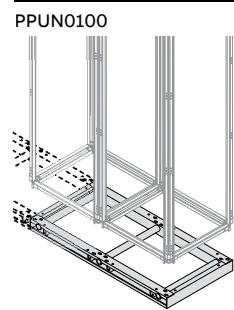
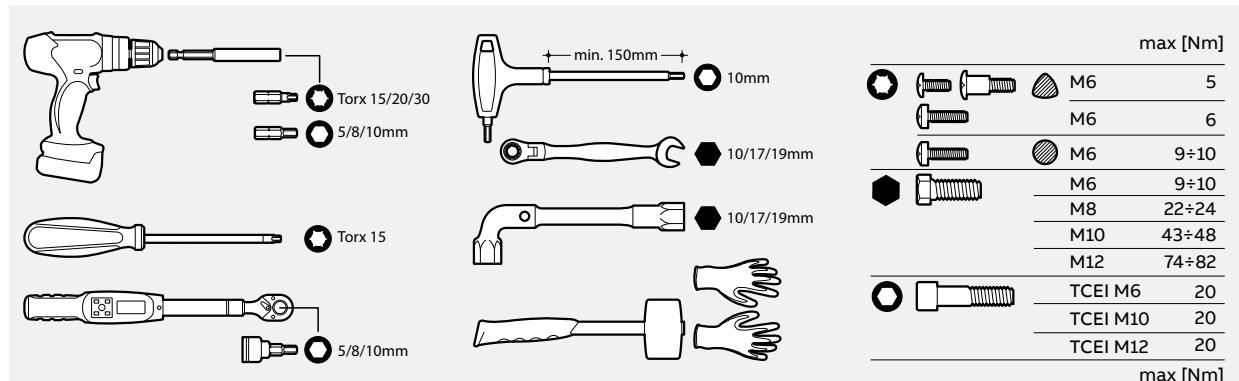
**3****4**

## Plinth

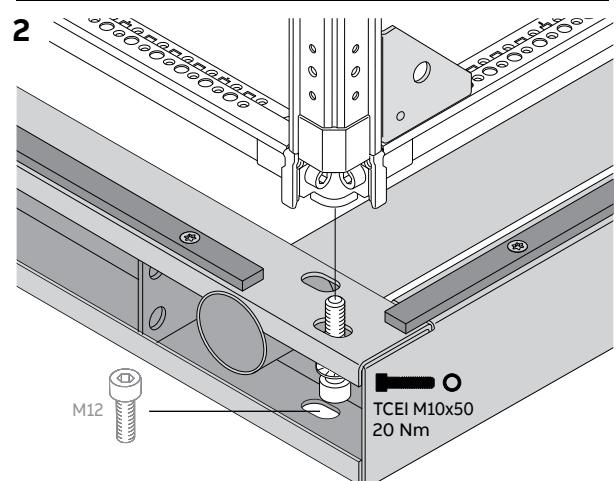
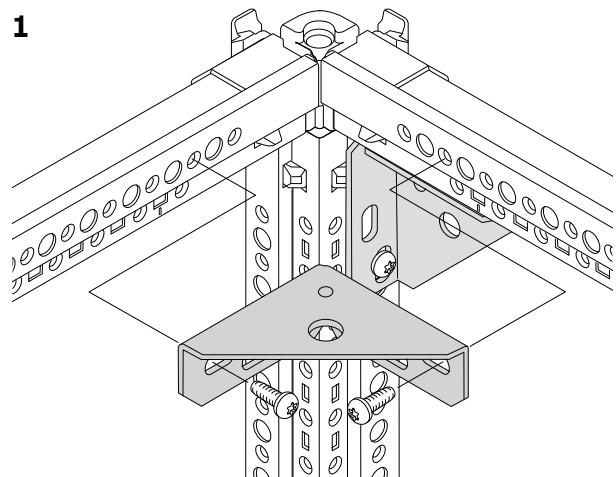
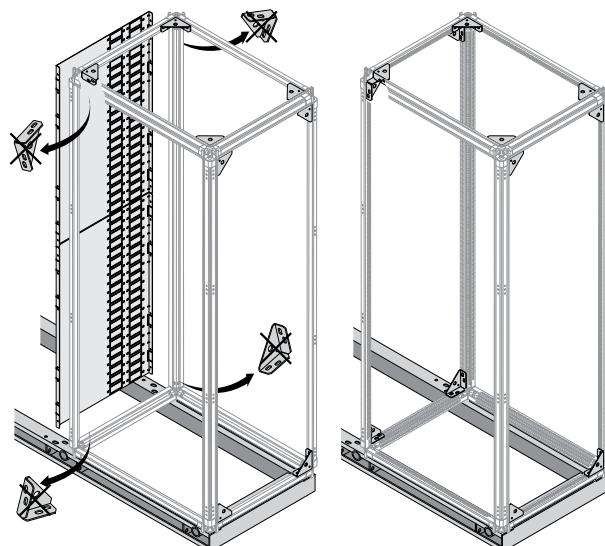
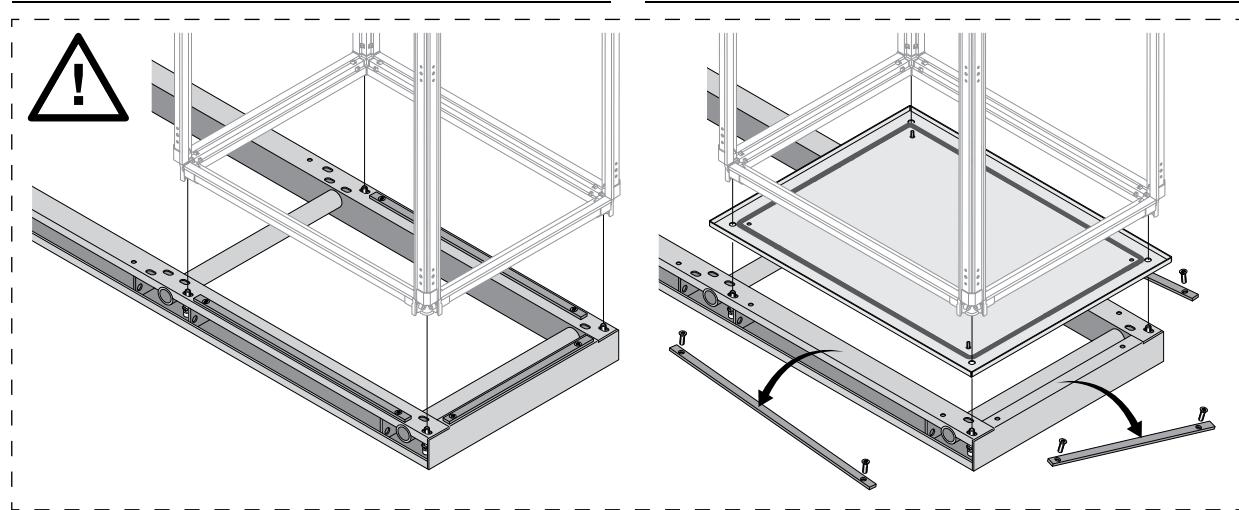




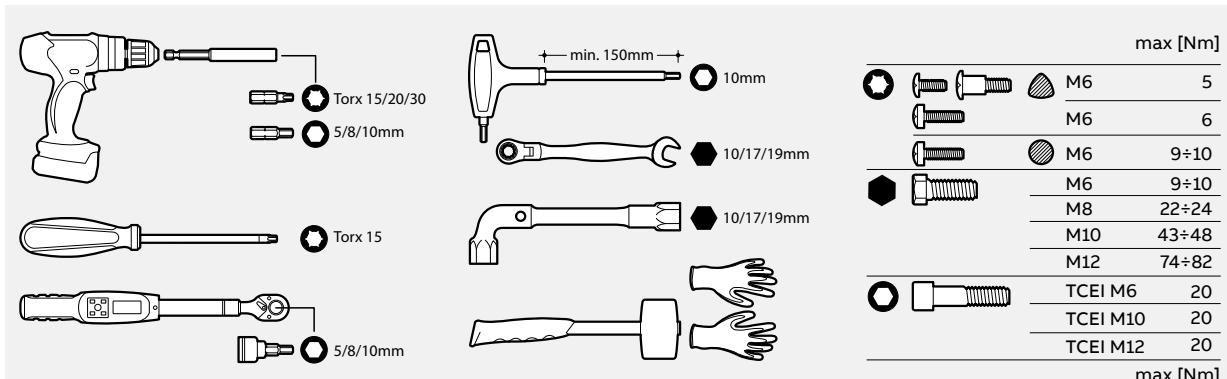
## Antiseismic kit/Reinforced plinth



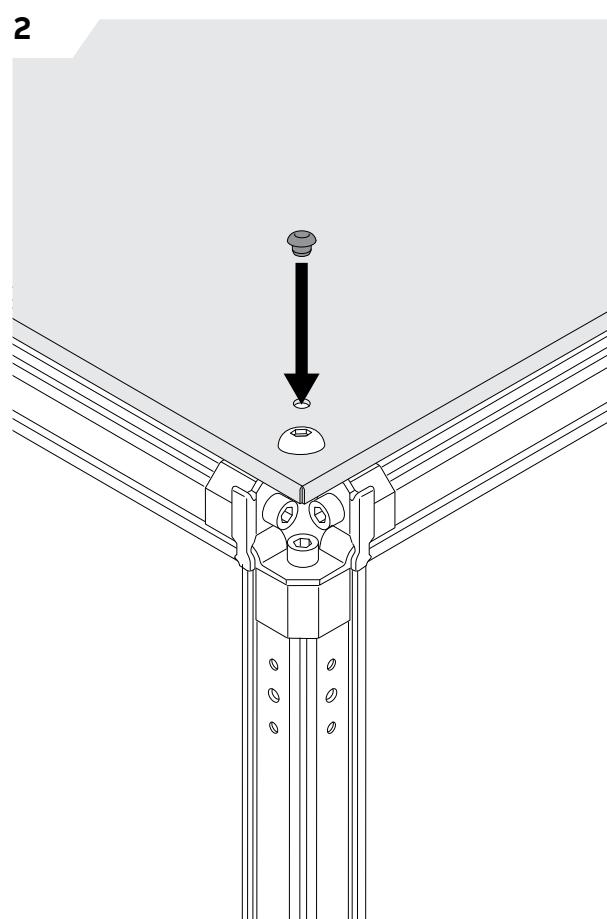
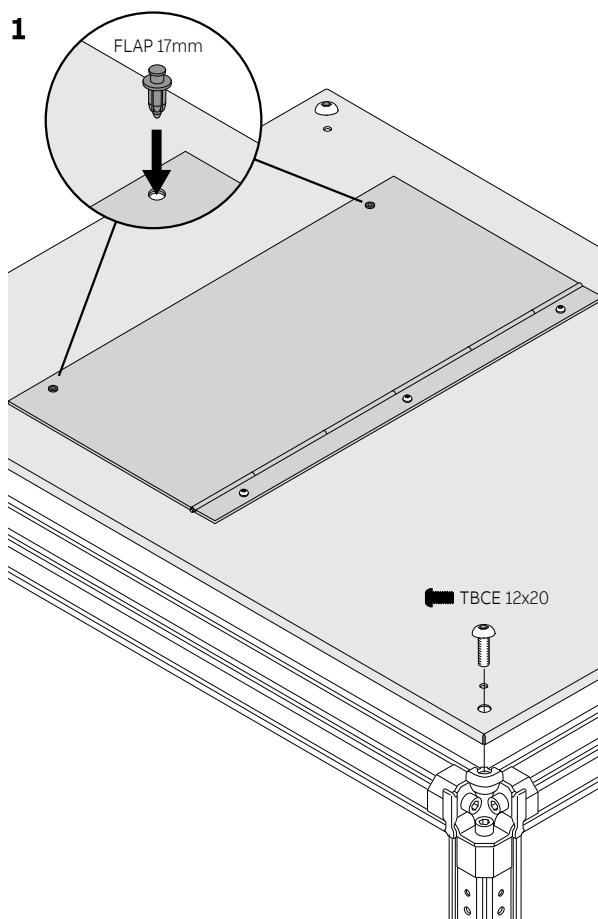
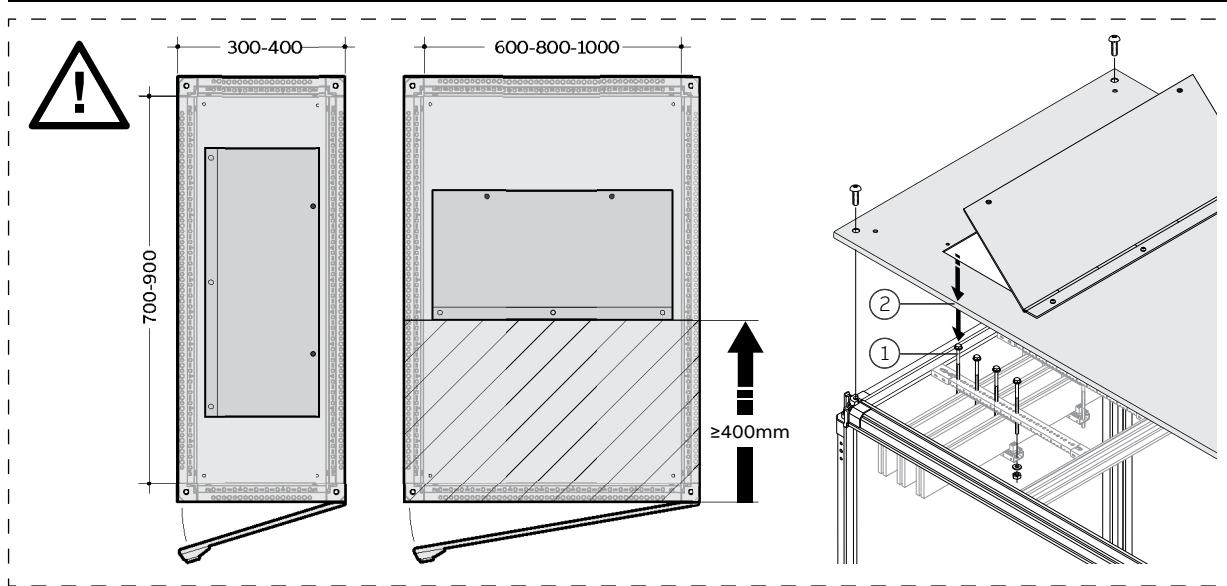
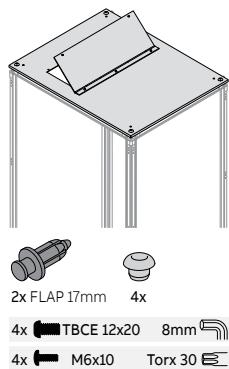
24x M6x10 Torx 30



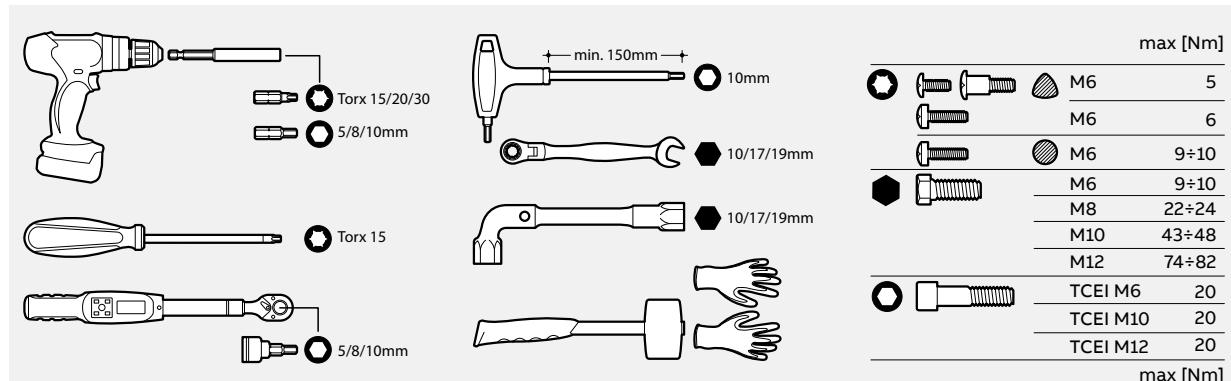
## Blind top arc fault resistant



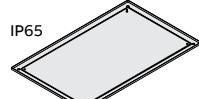
PTAB....



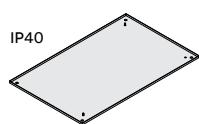
## Top/Bottom panels



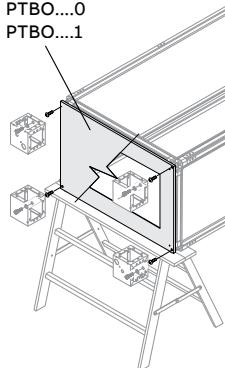
PTBB....



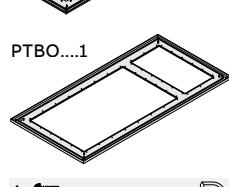
IP40



4x TBCE 12x20 8mm

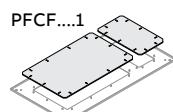
PTBB....  
PTBO....0  
PTBO....1

PTBO....0



4x TBCE 12x20 8mm

PFCF....0



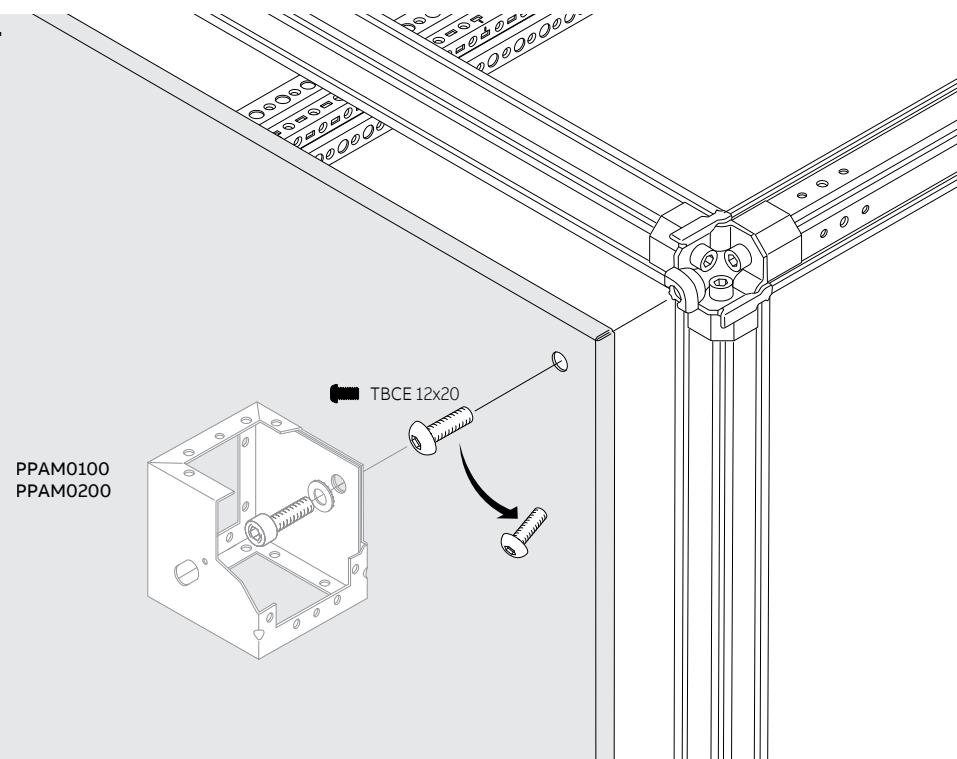
1x

4x

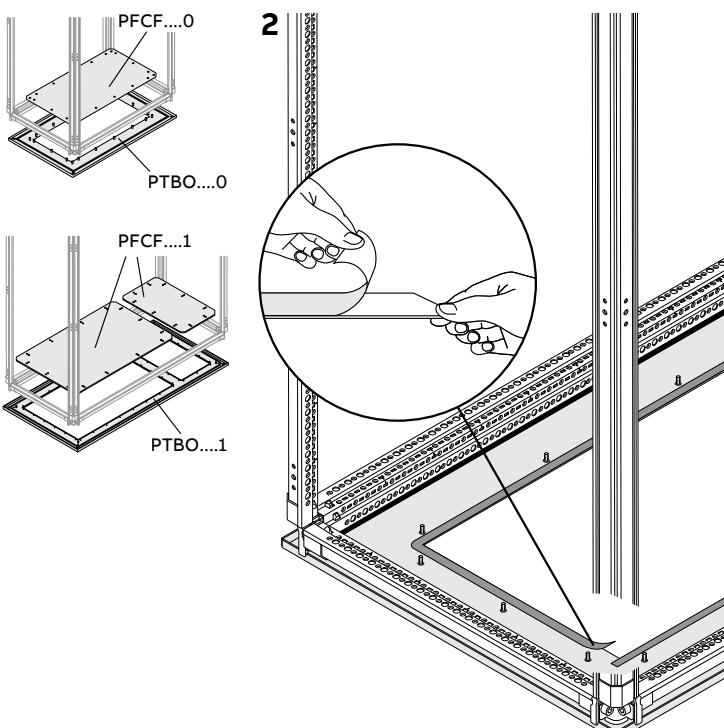
M6x10 Torx 30

Xx O M6 10mm

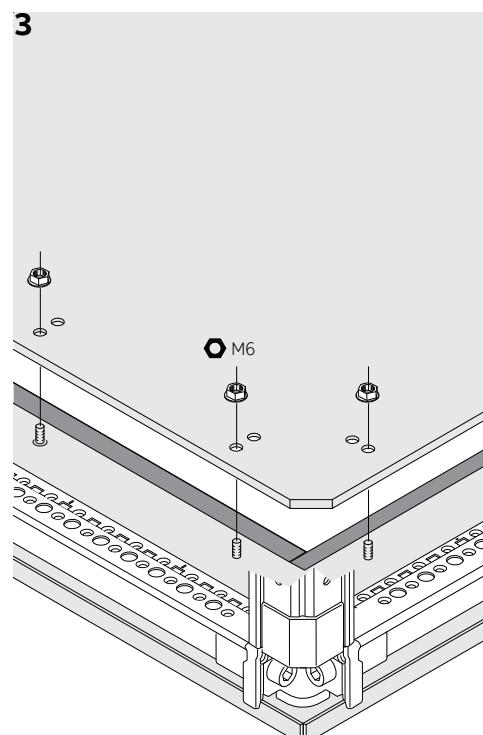
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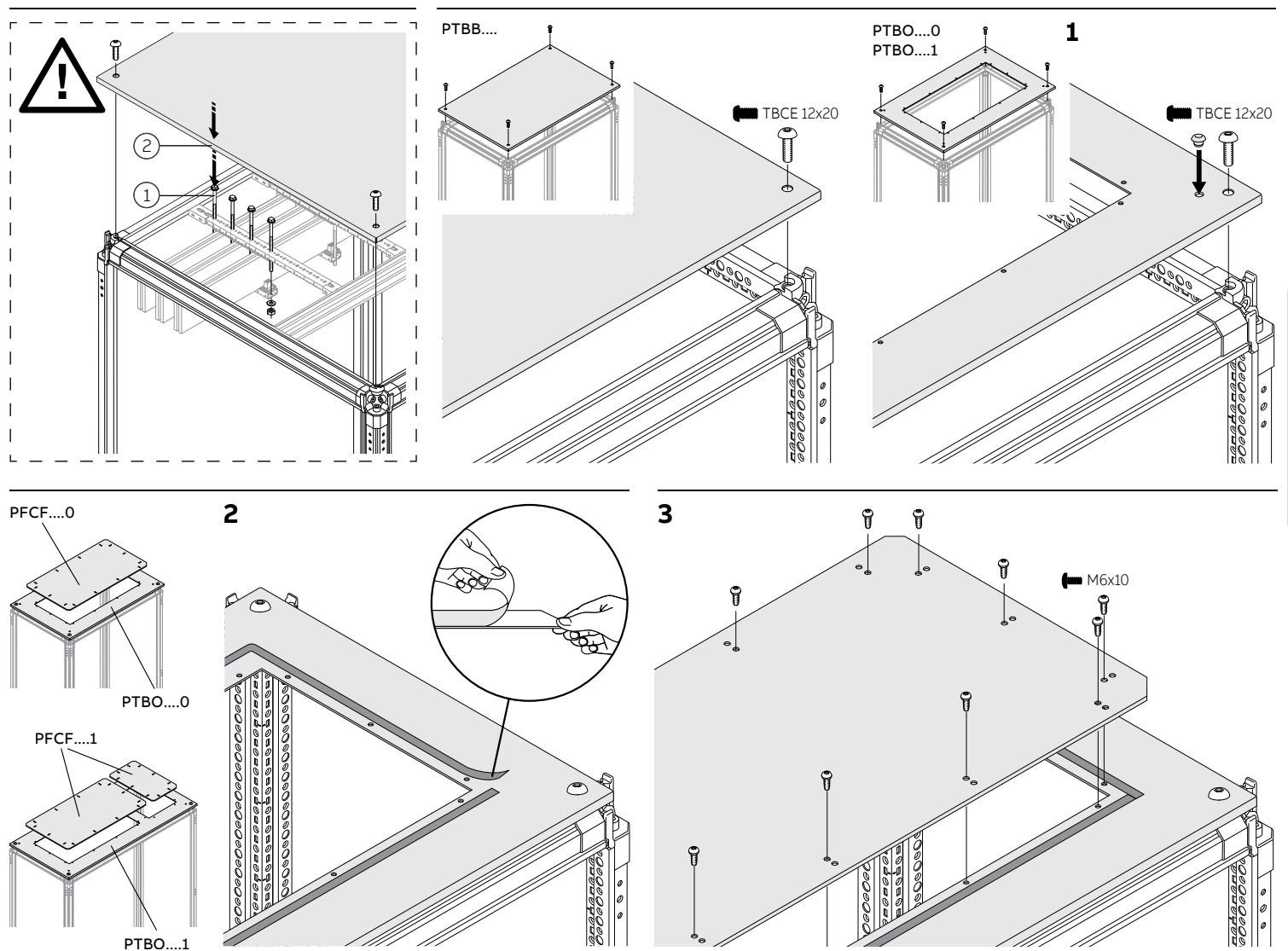


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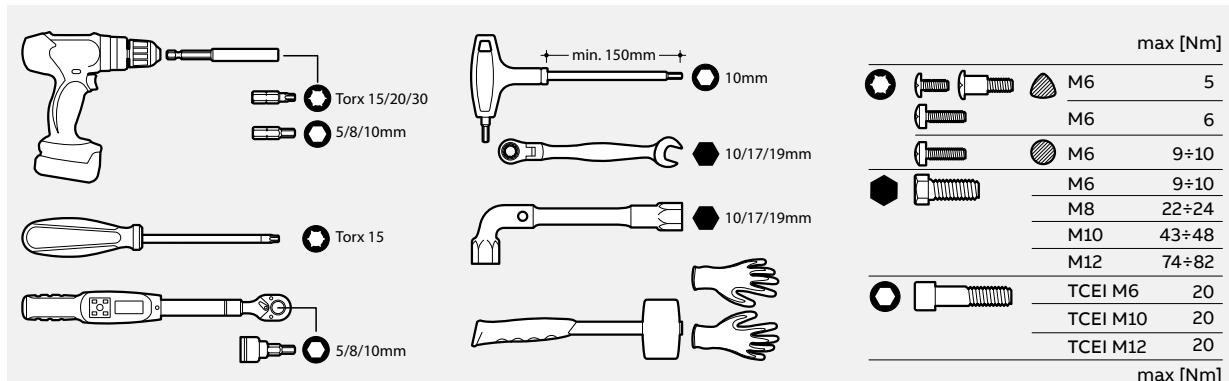


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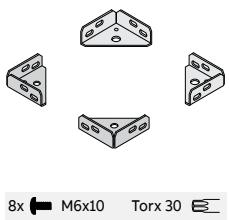




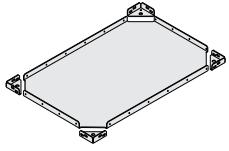
## Internal bottom panel



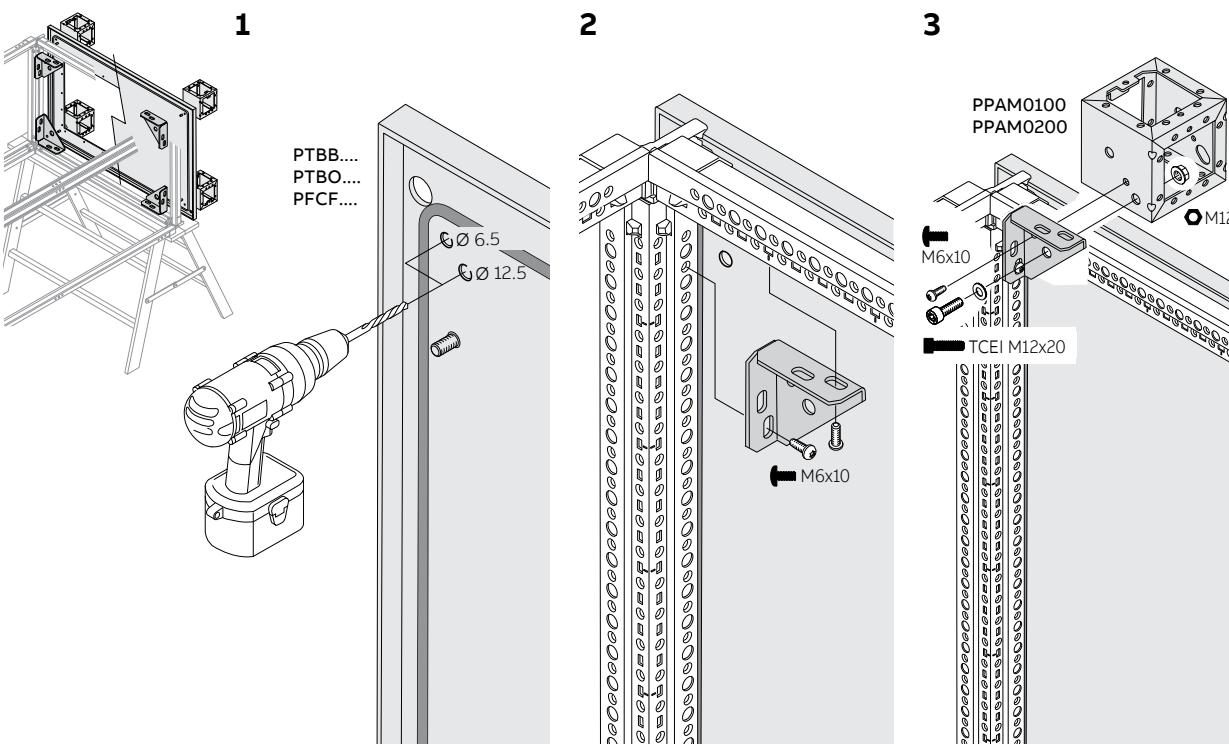
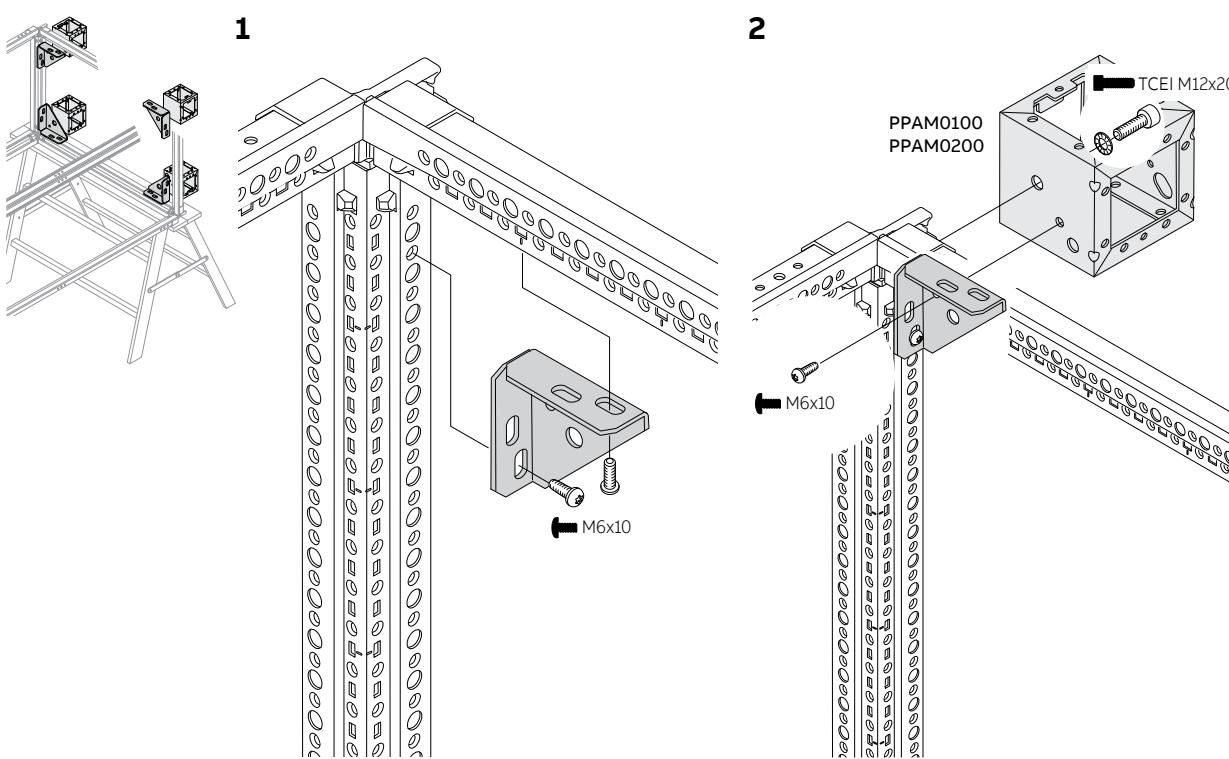
PBRB0004

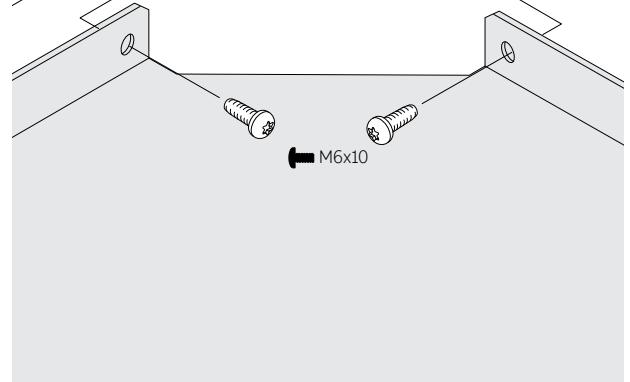
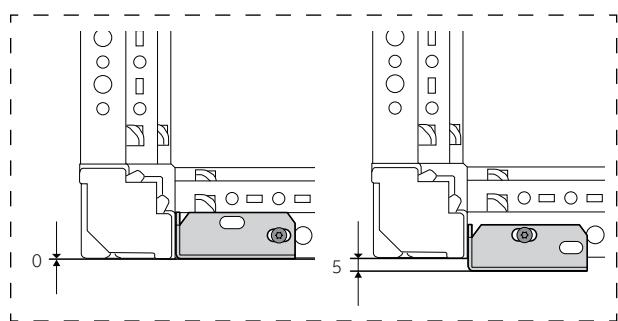
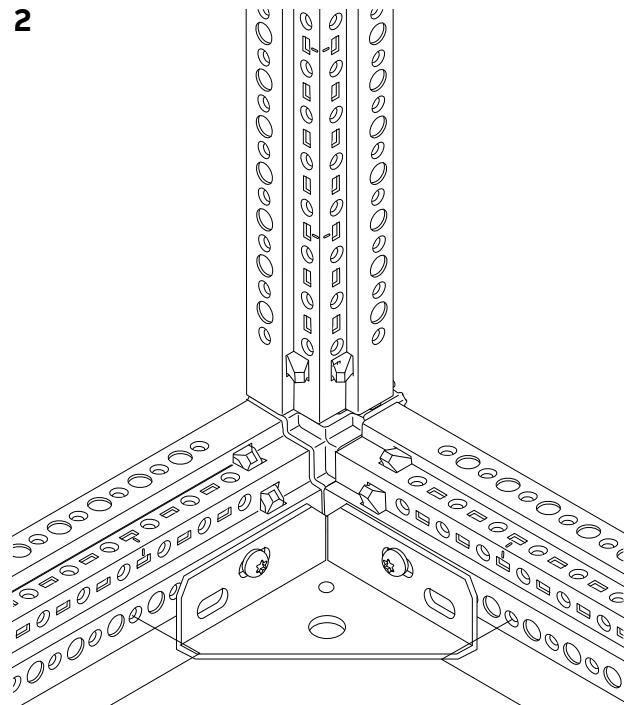
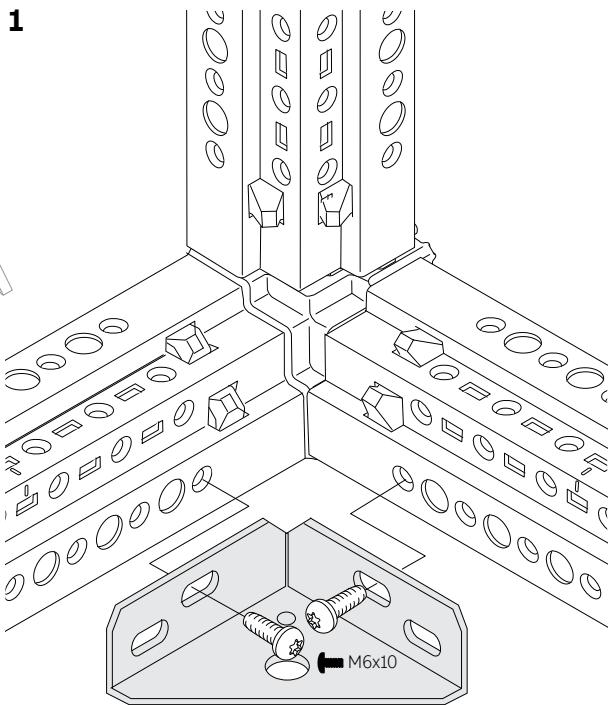
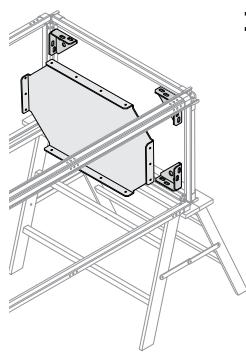


PBWP....

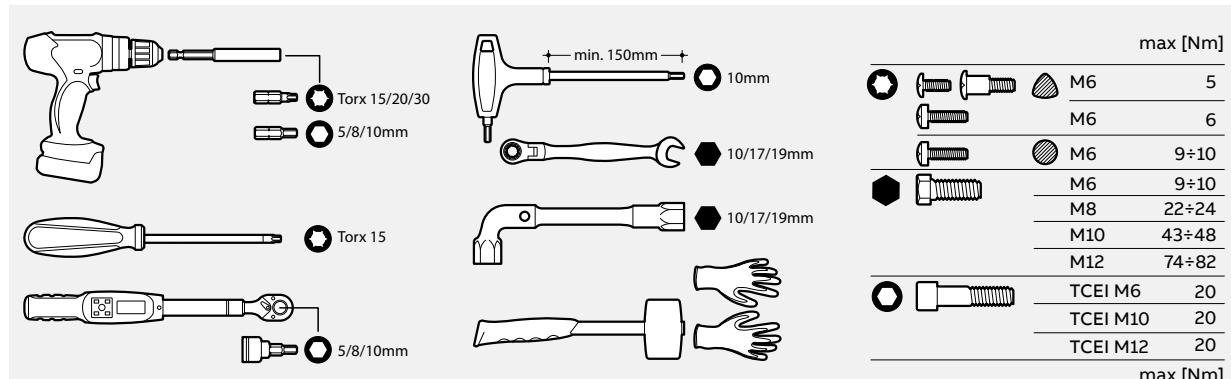


Xx M6x10 Torx 30

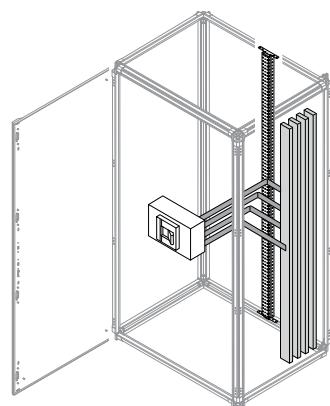
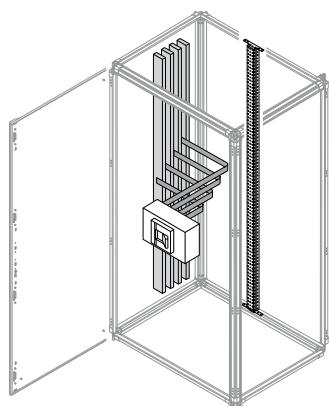
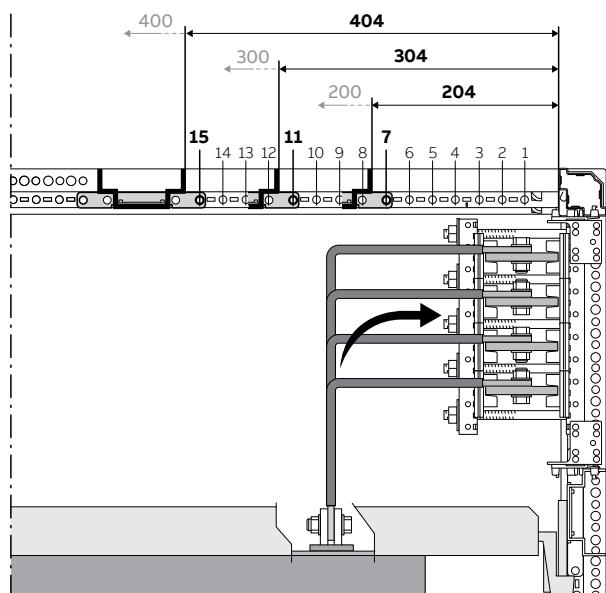
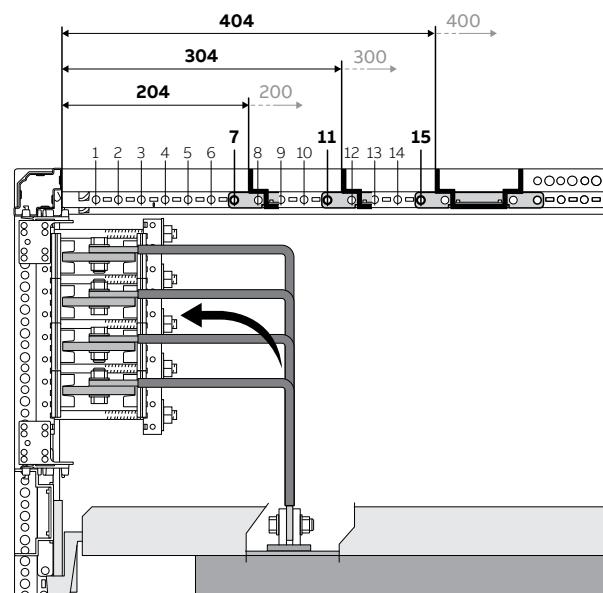
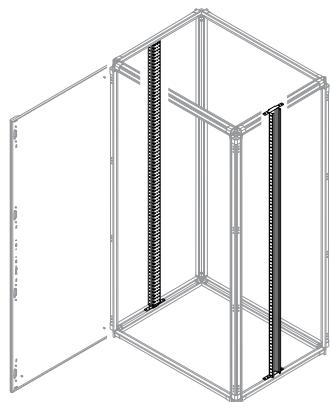
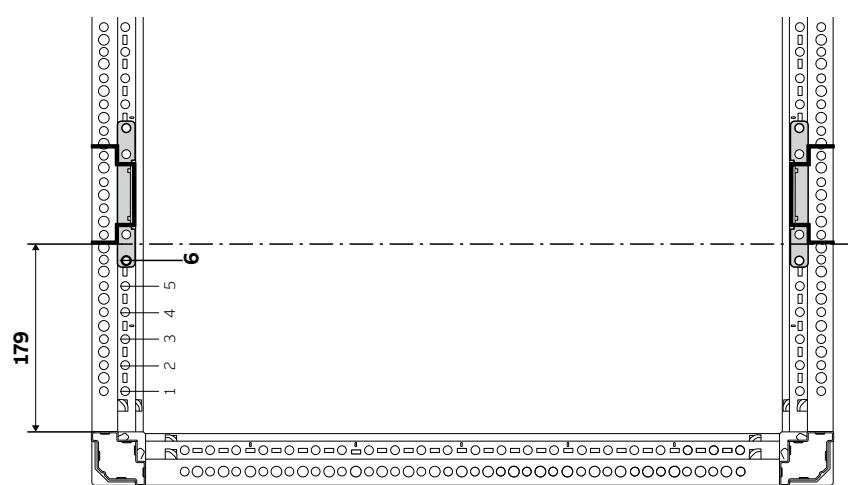
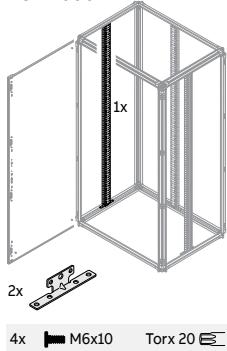


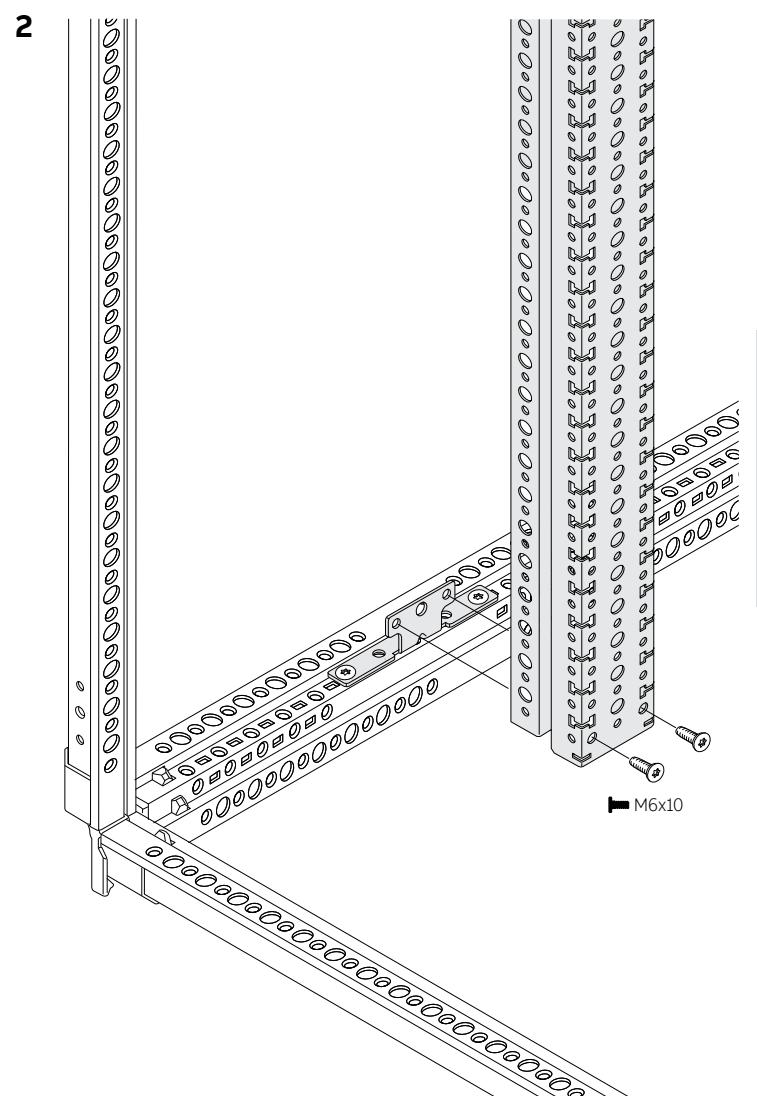
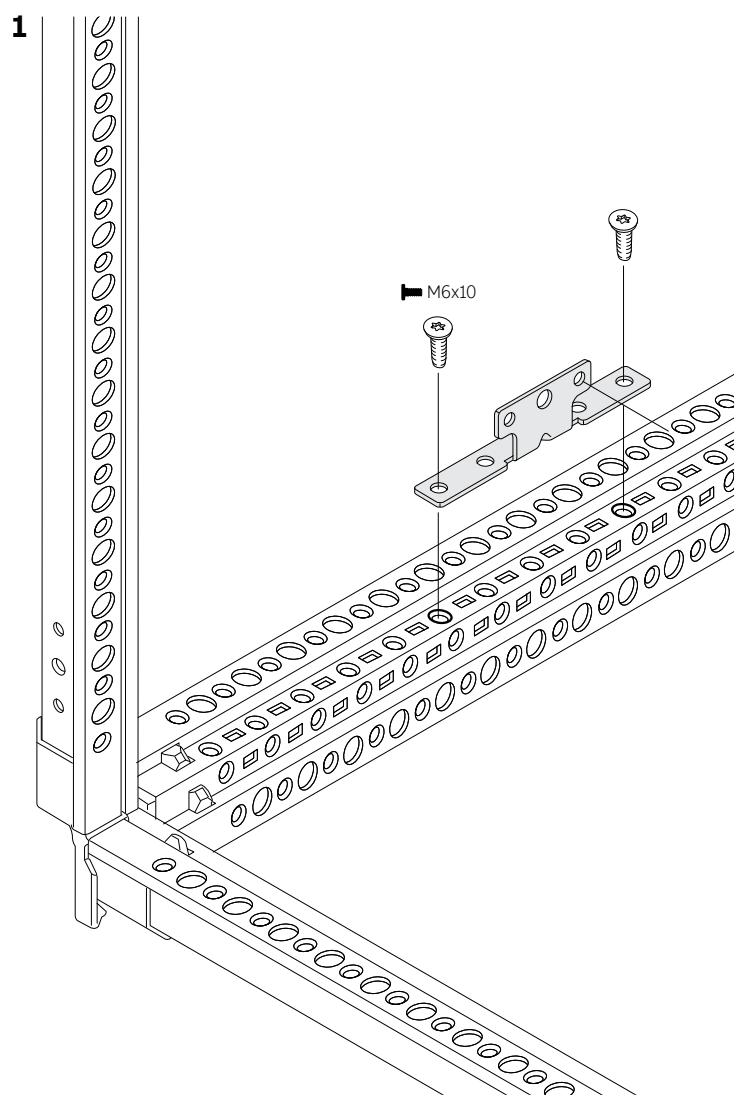


## Functional upright

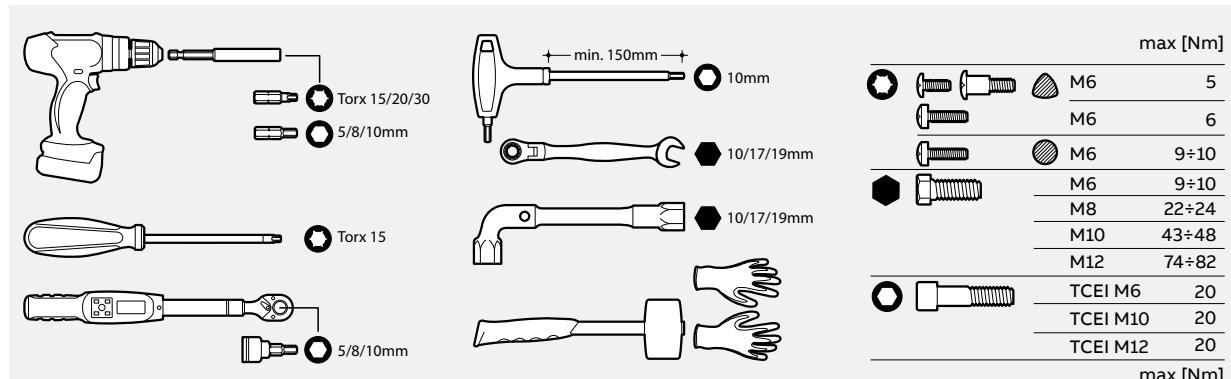


PUKI1800  
PUKI2000

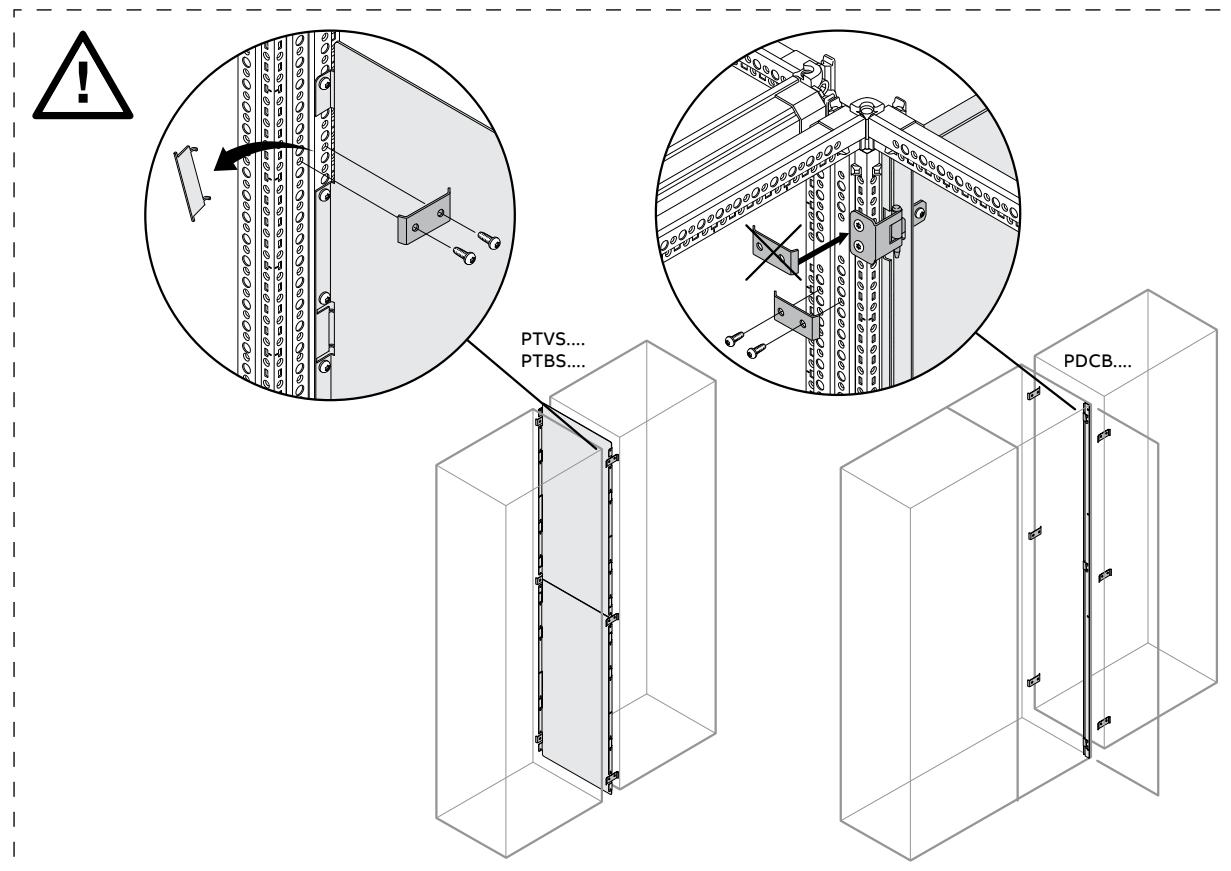
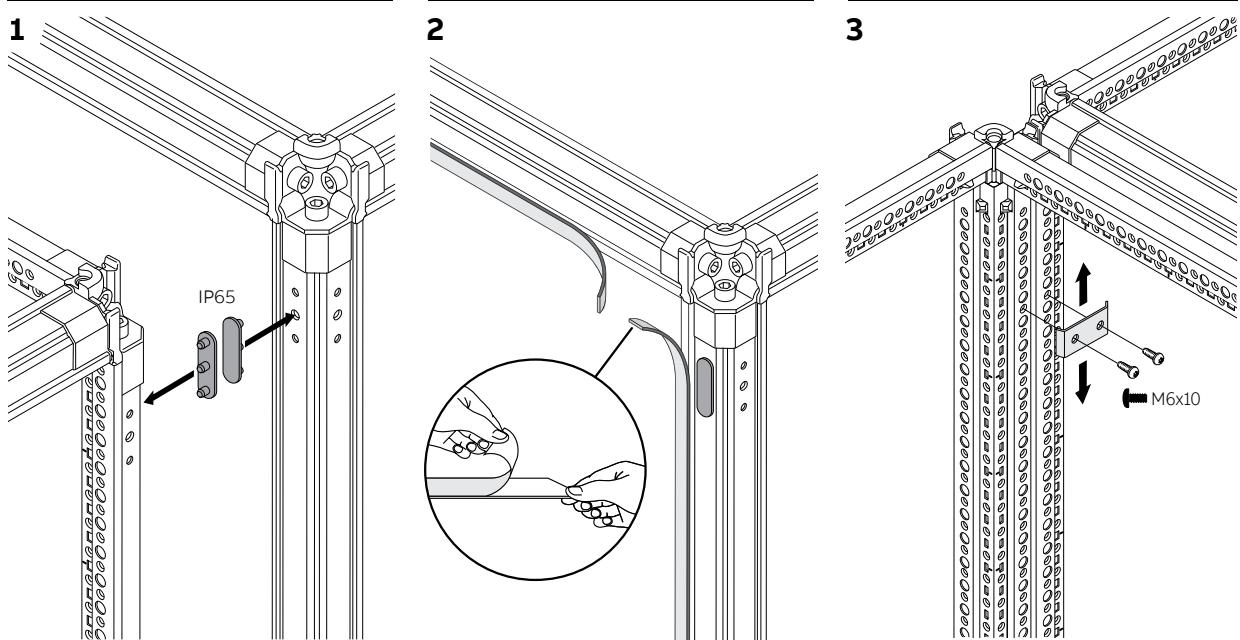
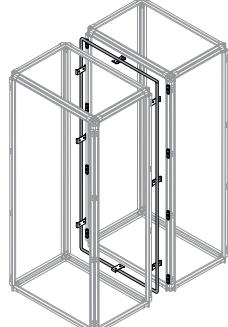


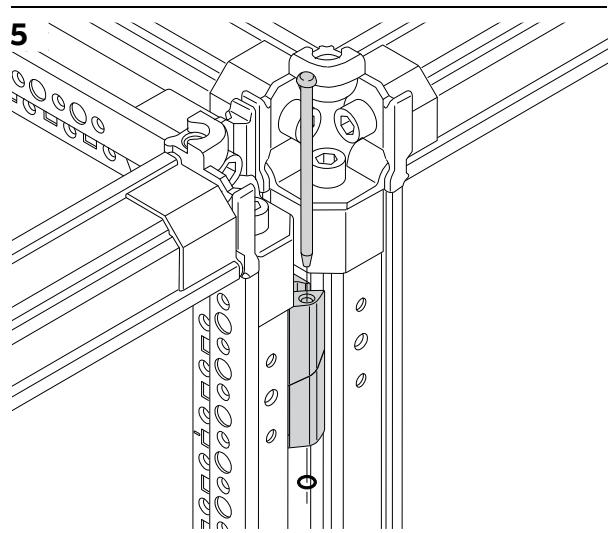
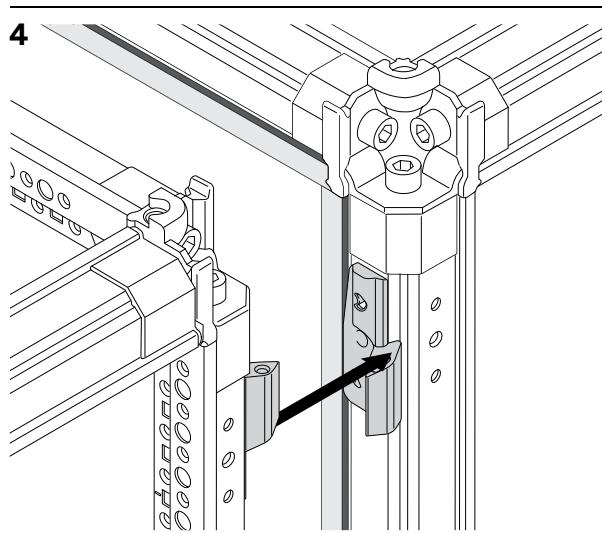
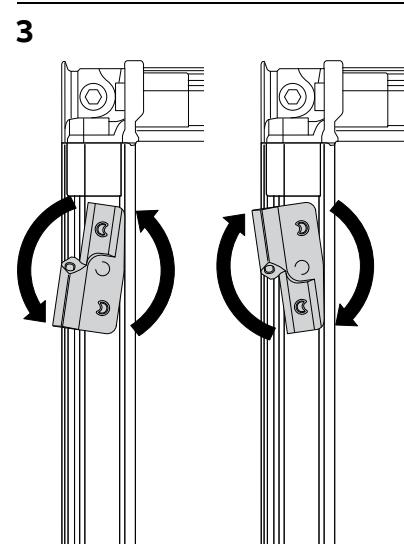
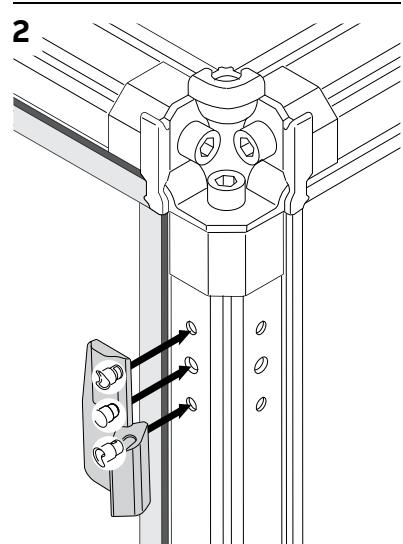
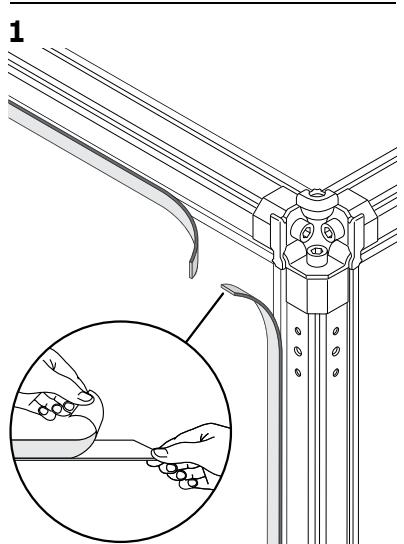


## Kit for joining structures

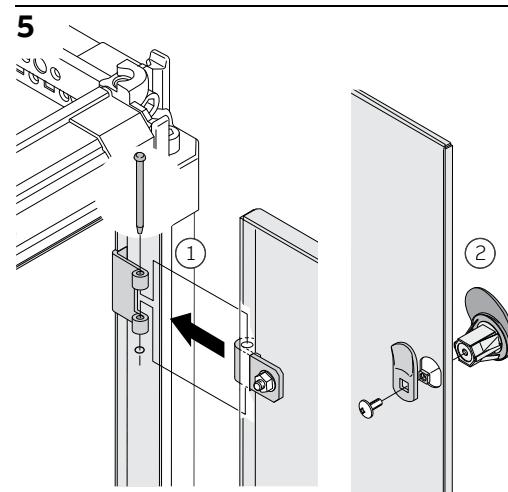
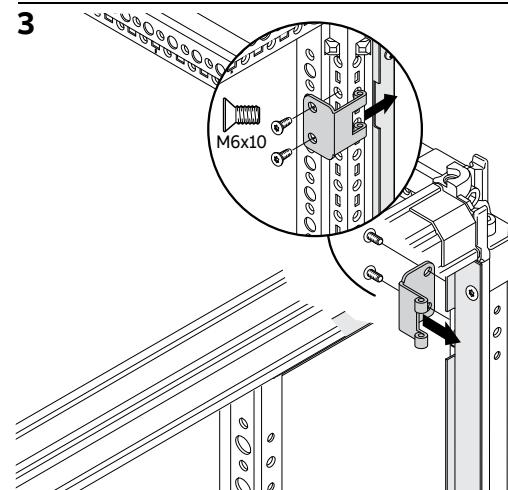
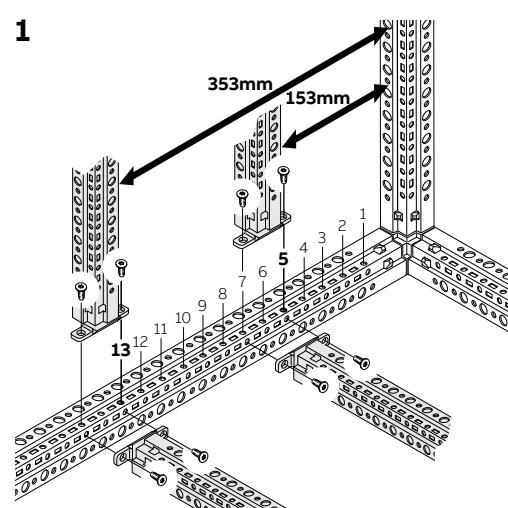
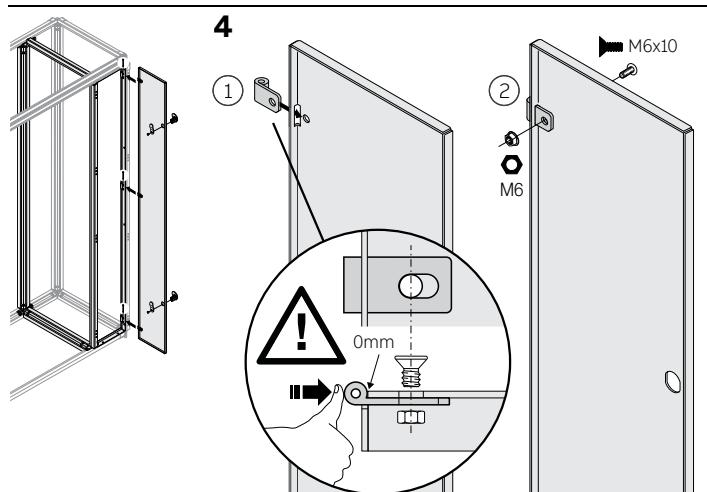
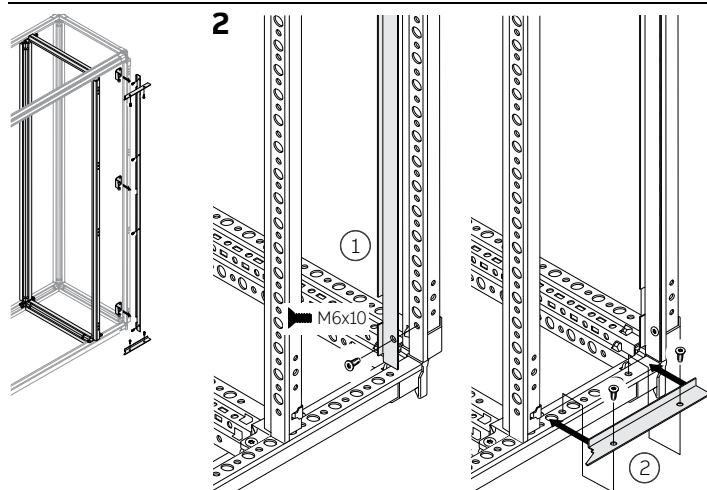
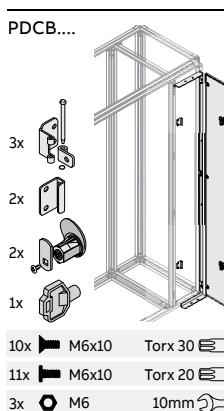
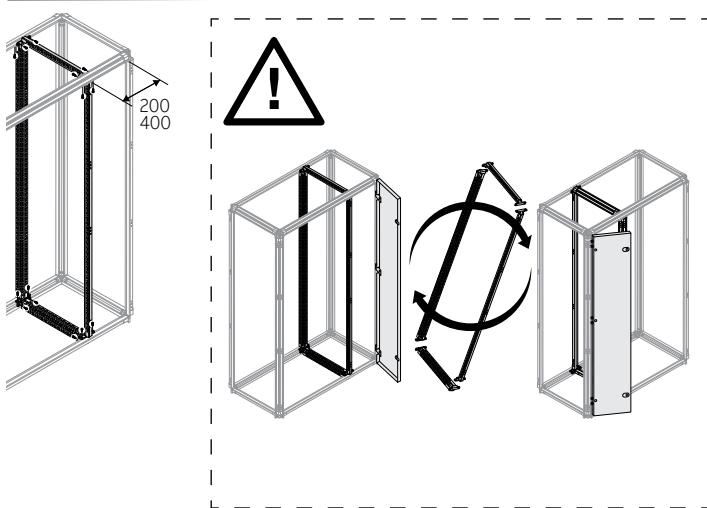
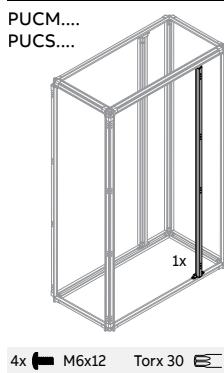
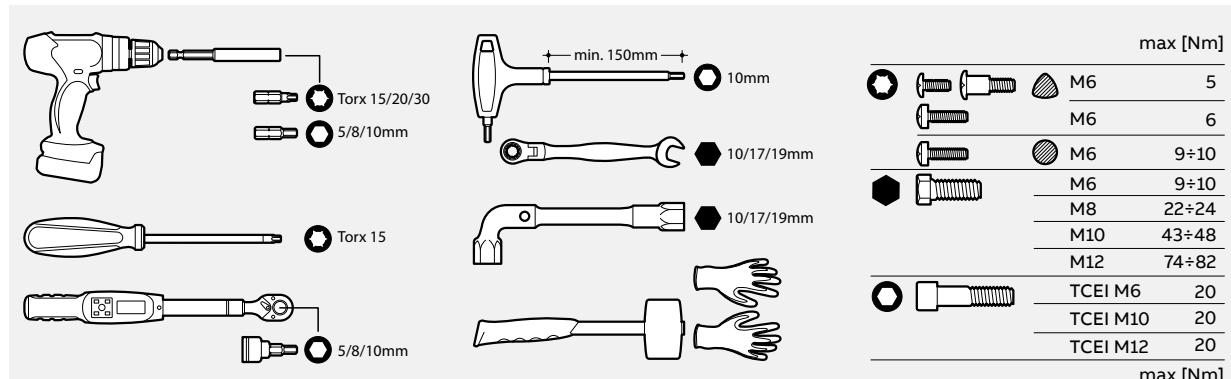


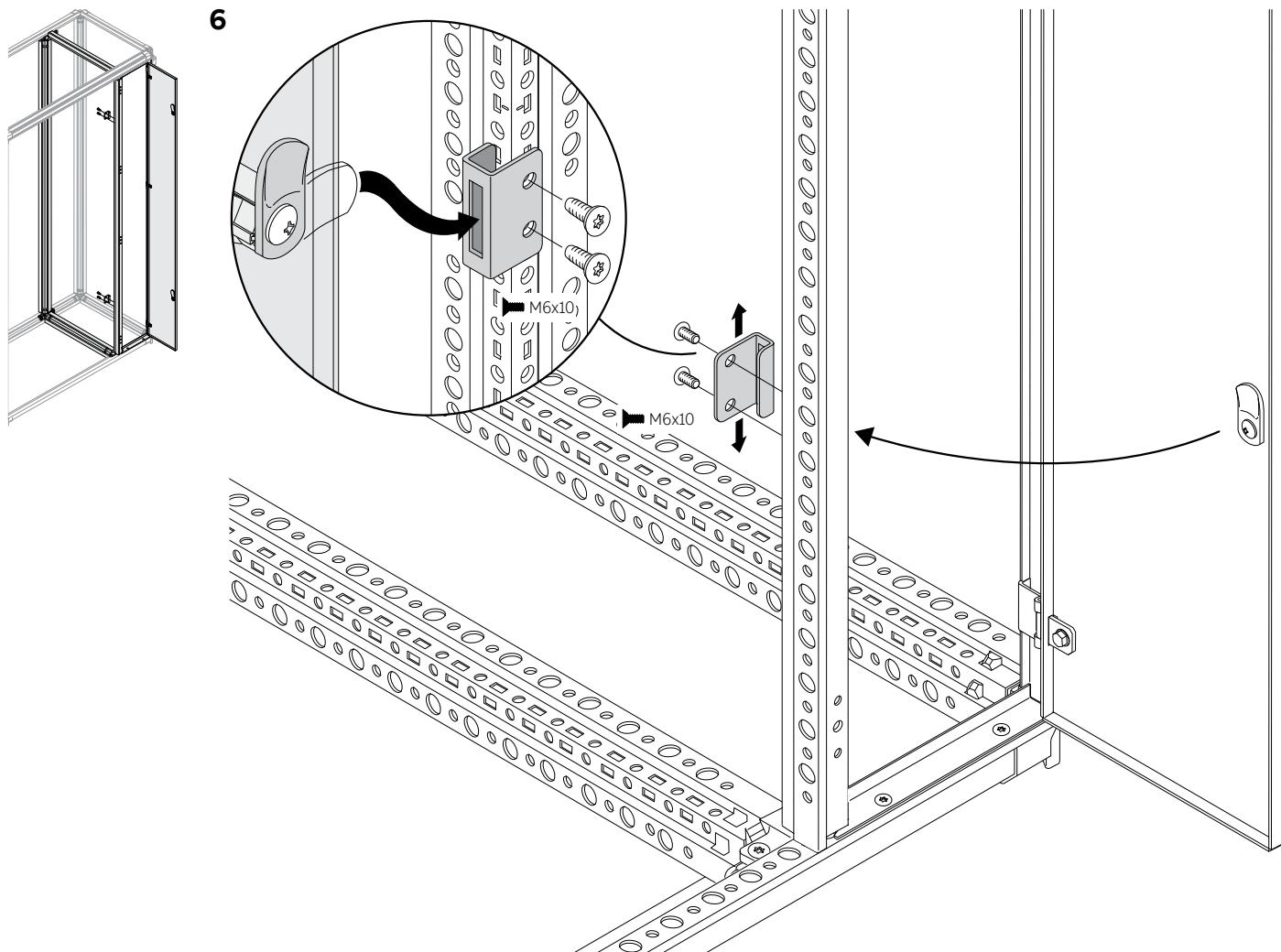
PSBS0065



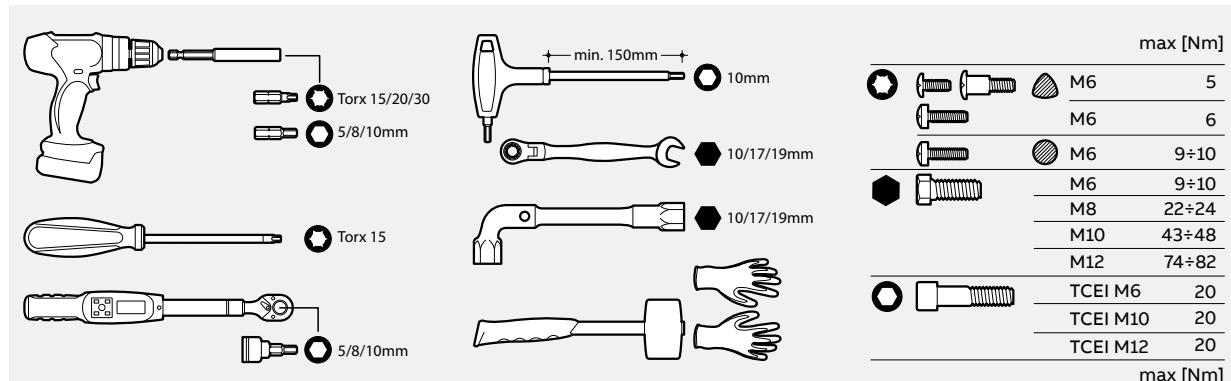


## Internal cable compartment

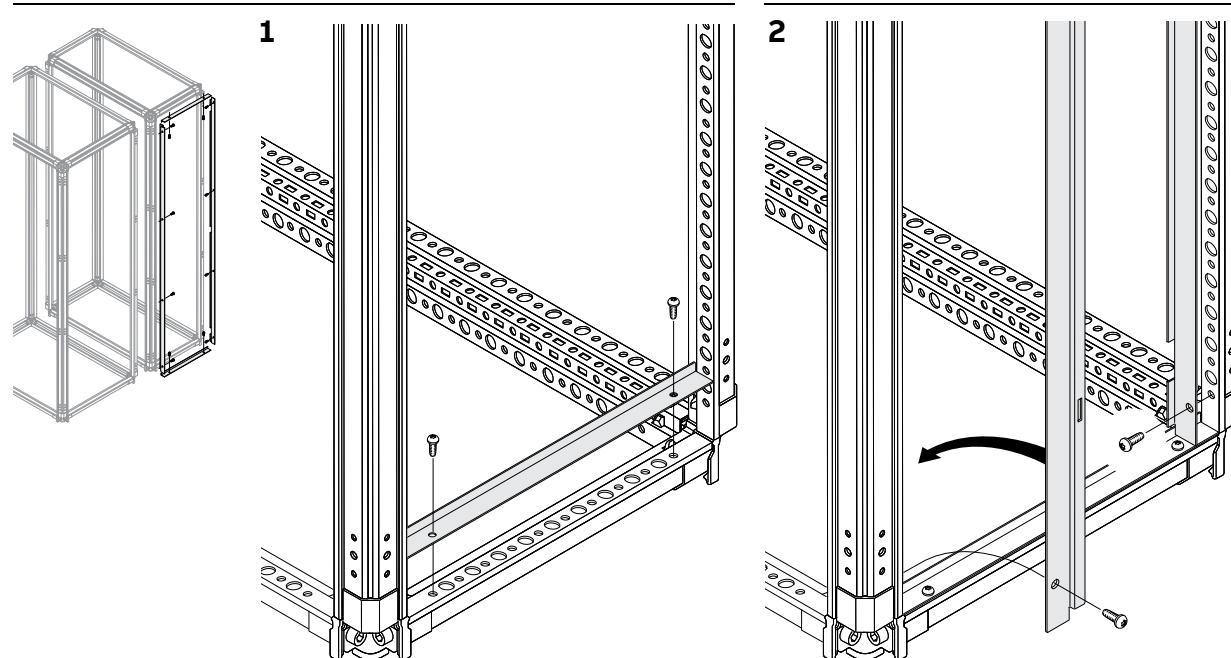
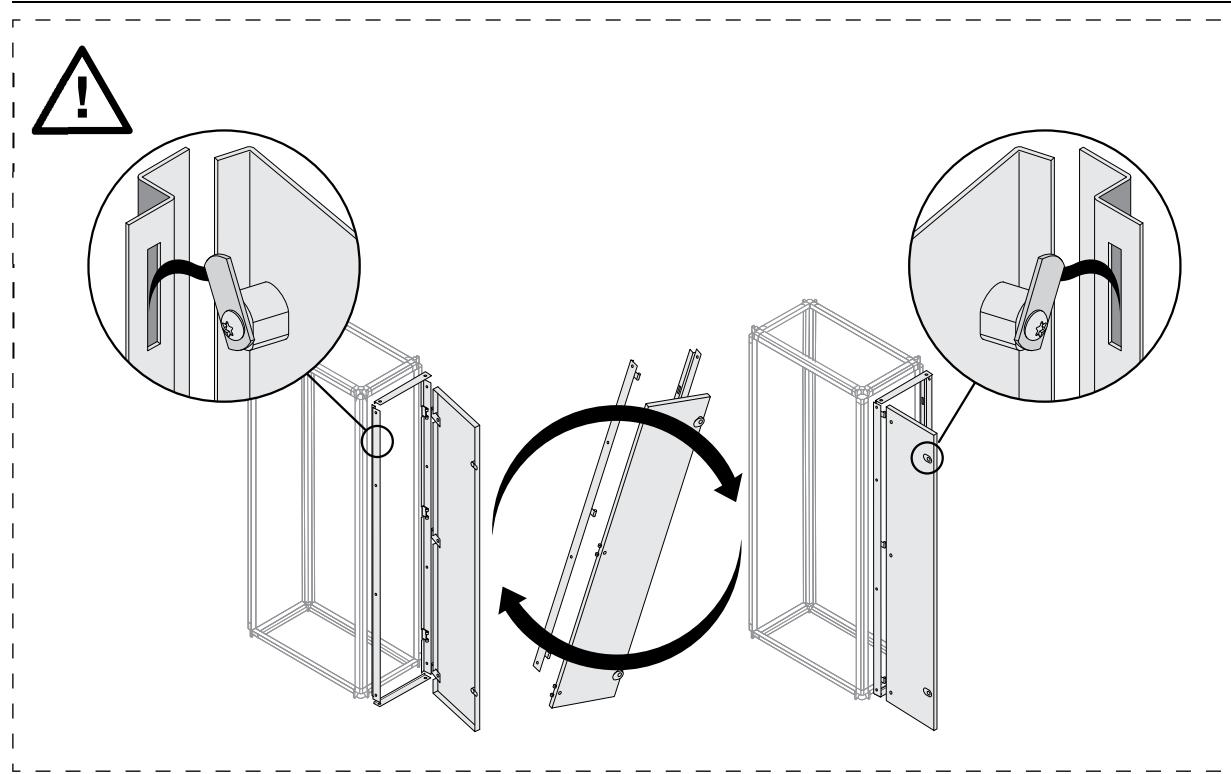
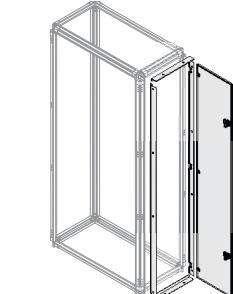


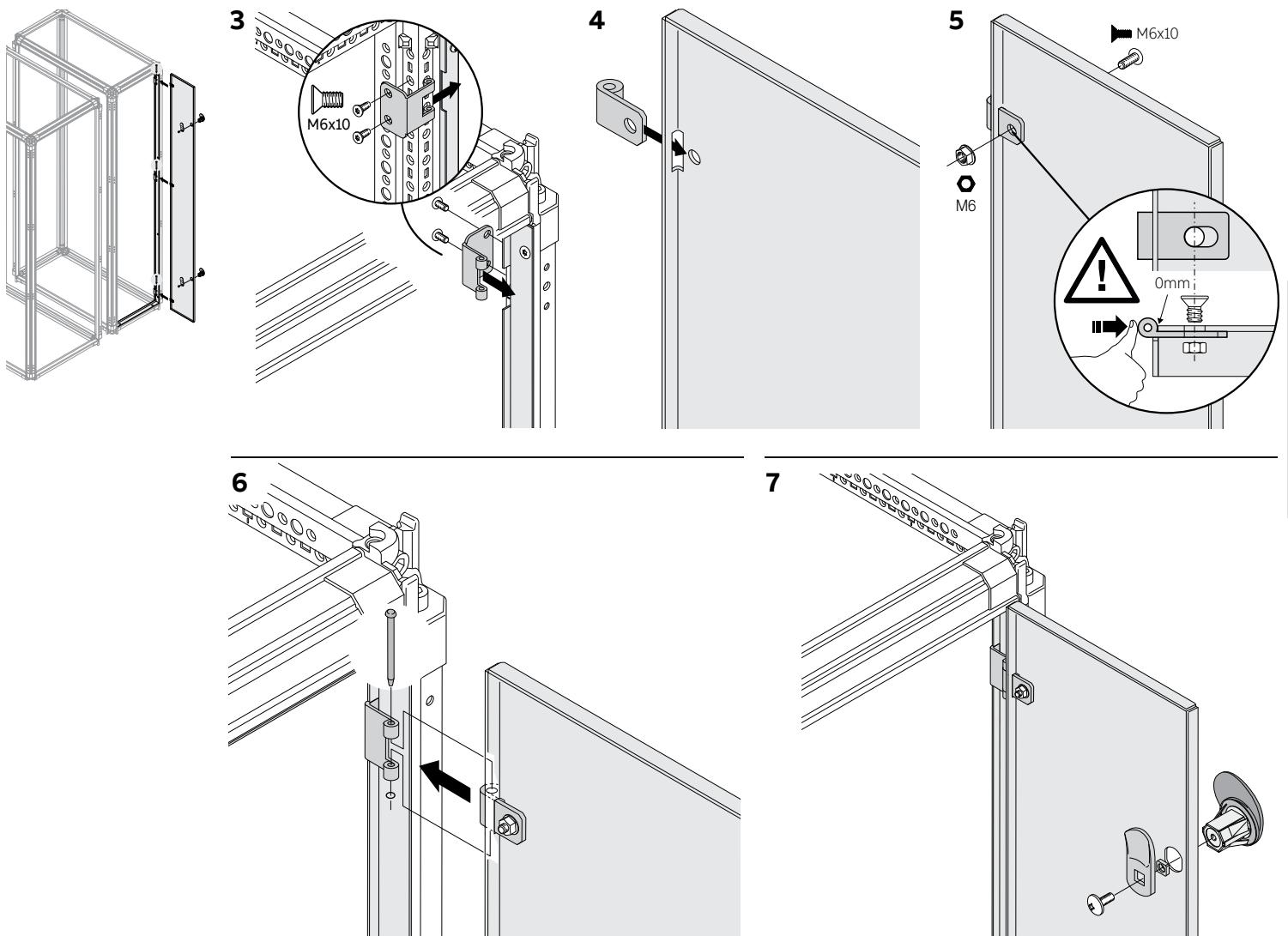


## External cable compartment

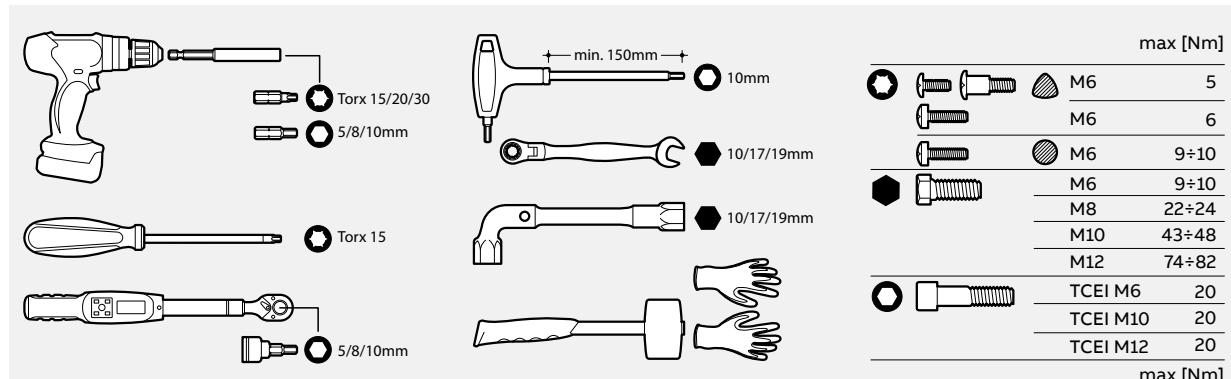


PDCB...

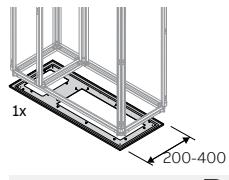




## Rear cable compartment



PTBO.12



4x TBCE 12x20 8mm

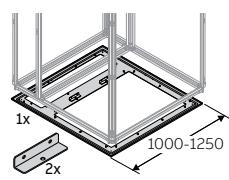
1x  
600-800

1x

4x TBCE 12x20 8mm

2x M6x10 Torx 30

2x M6 10mm

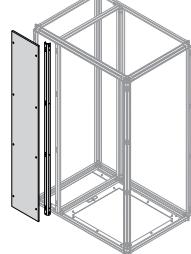


4x TBCE 12x20 8mm

4x M6x10 Torx 30

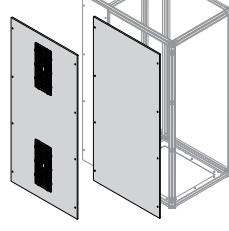
2x M6 10mm

PPLB....

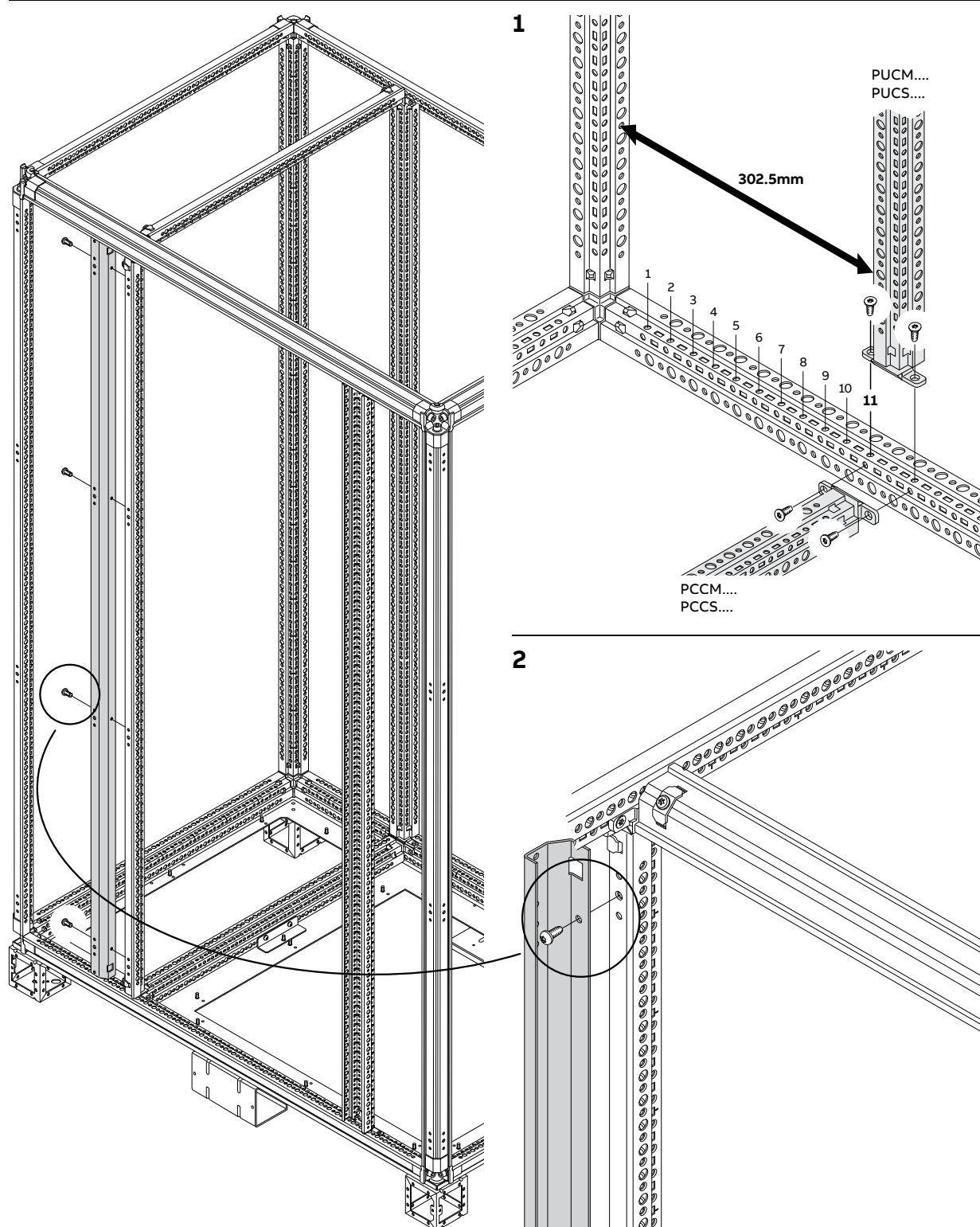


8x M6x27 8mm

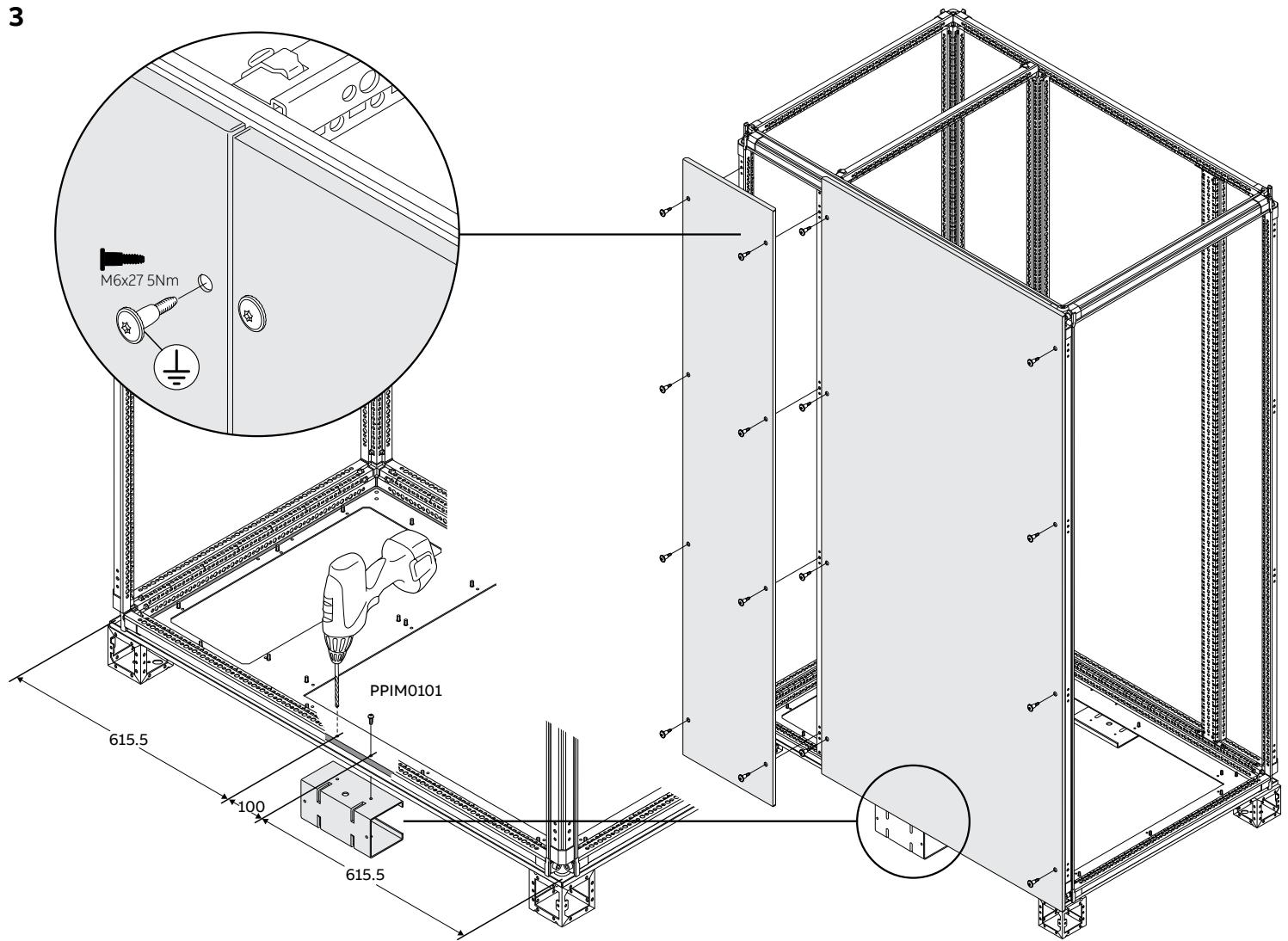
2x M6x10 Torx 30

PPRB....  
PPEA....

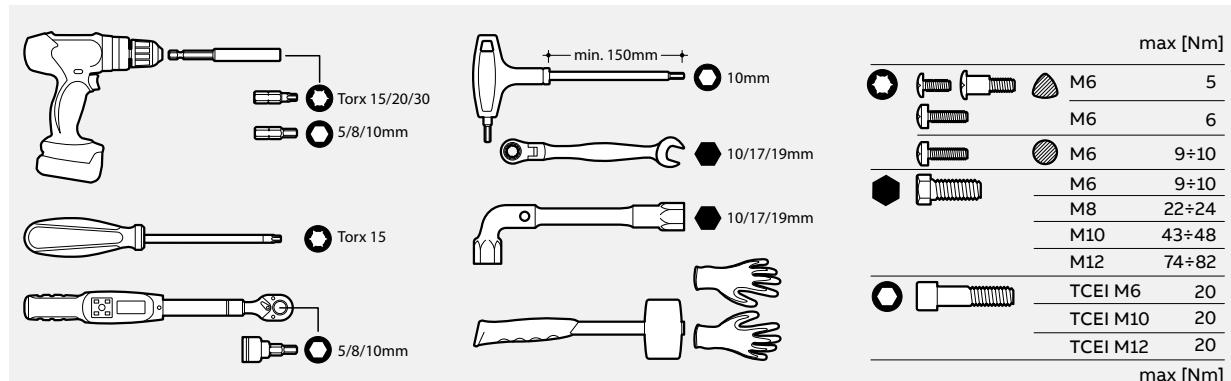
8x M6x27 8mm



3



## Corner structures

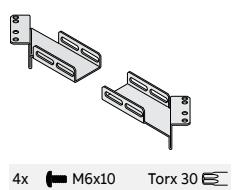


PSCS0579



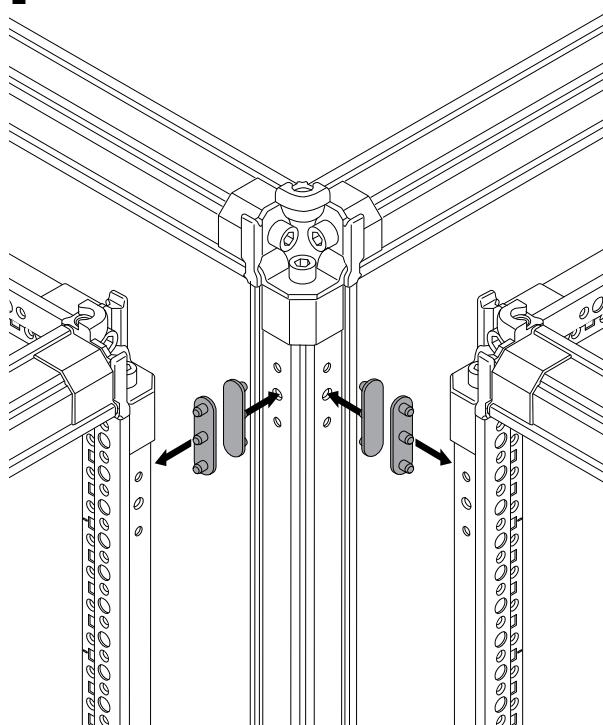
2x 16x 32x   
 32x Torx 30

PBCB0002

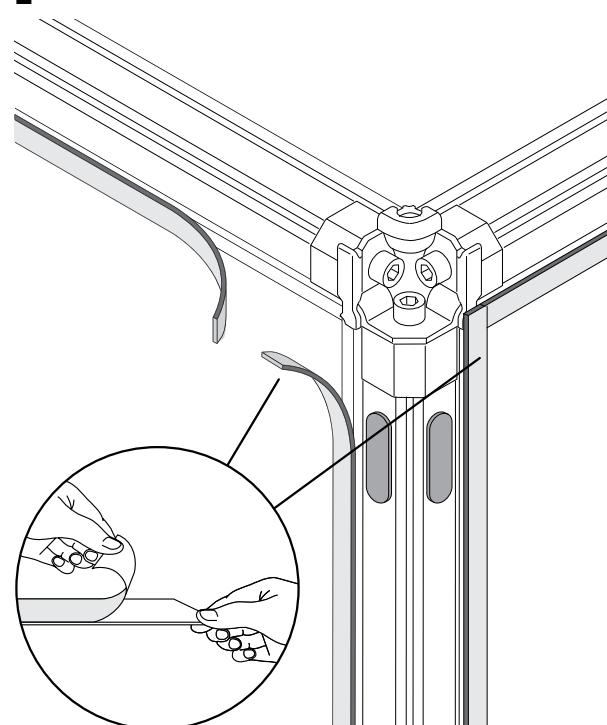


4x Torx 30

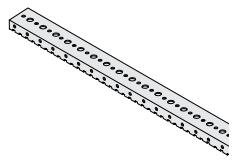
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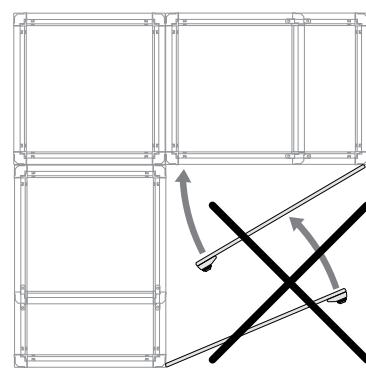
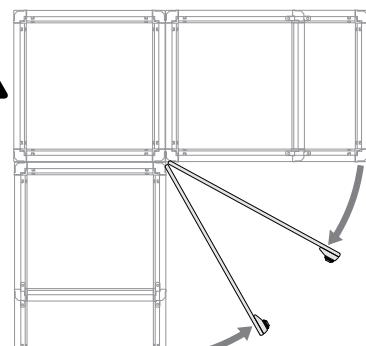
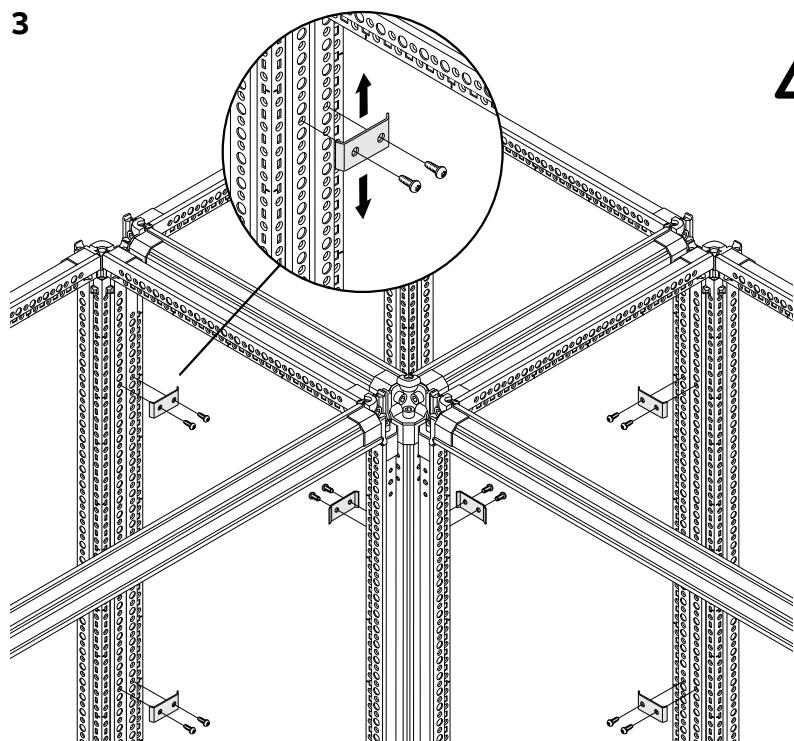
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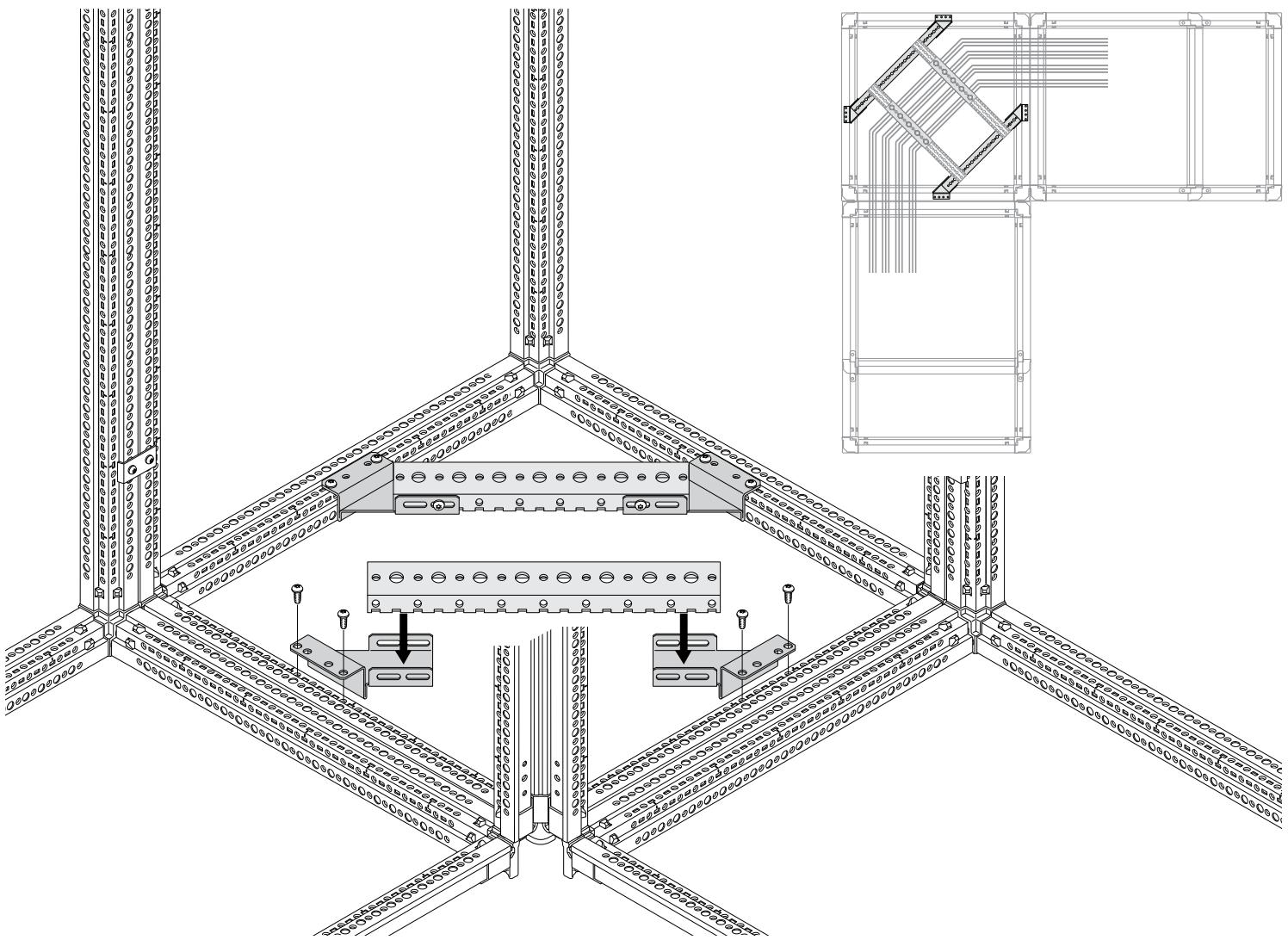


PCRM2013

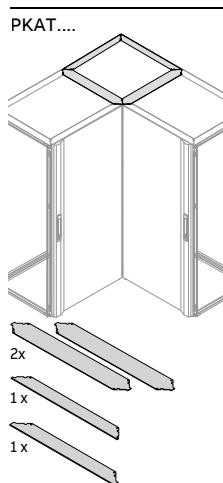
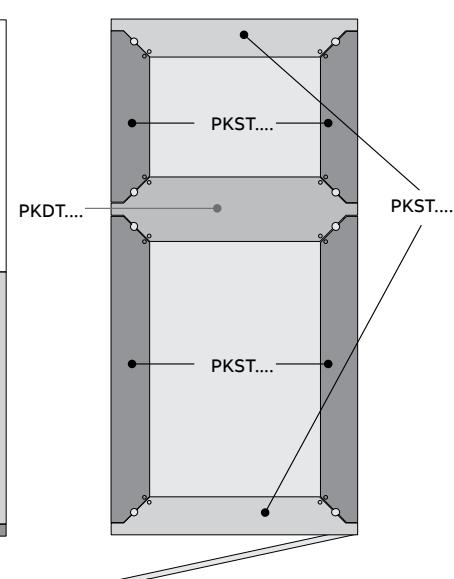
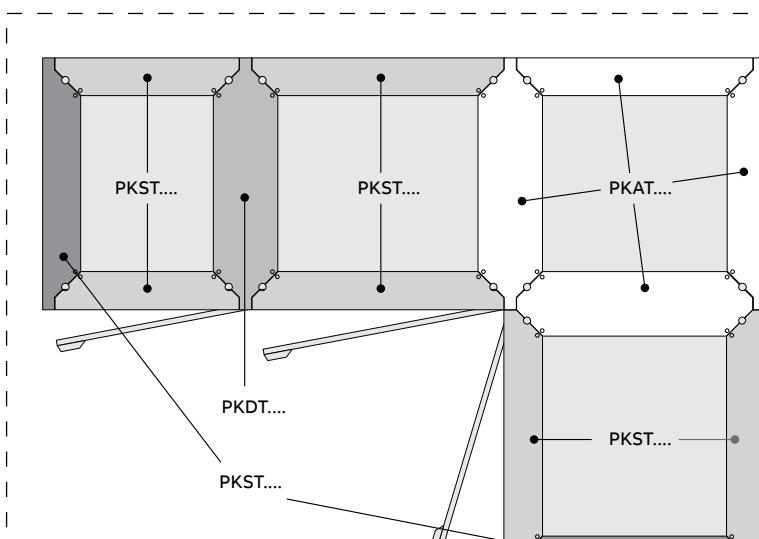
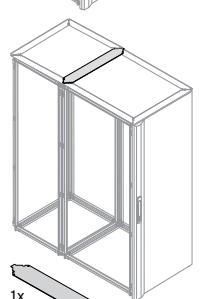
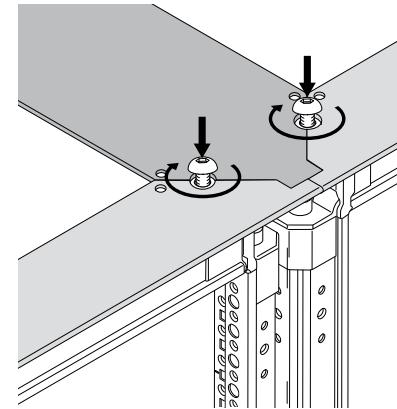
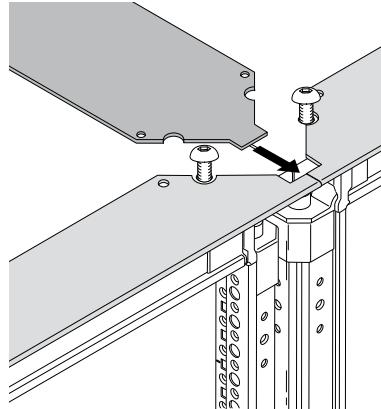
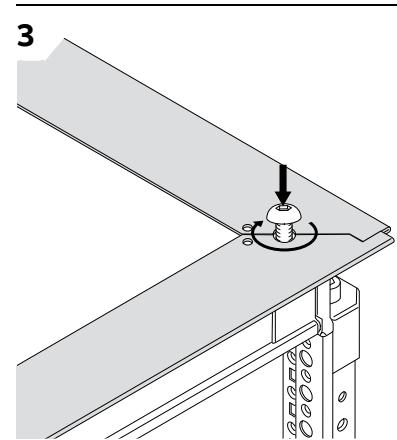
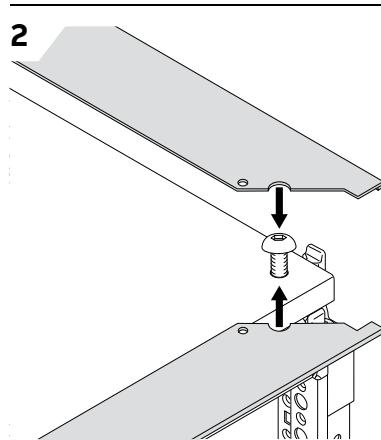
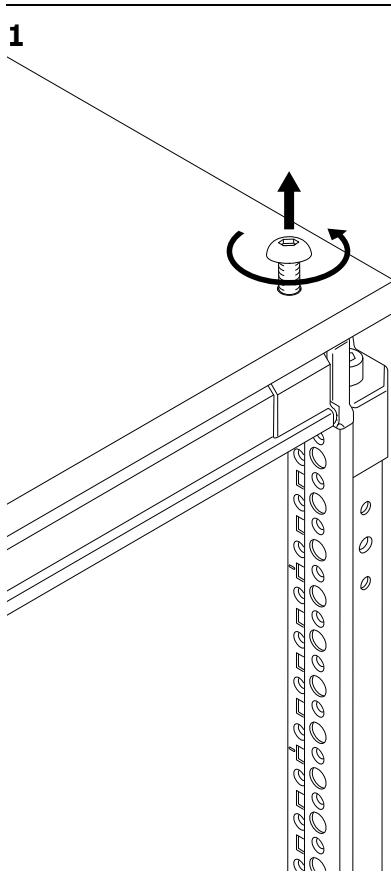
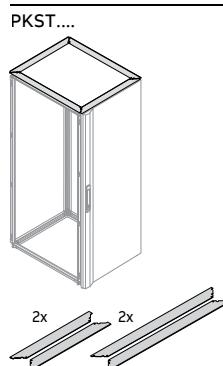
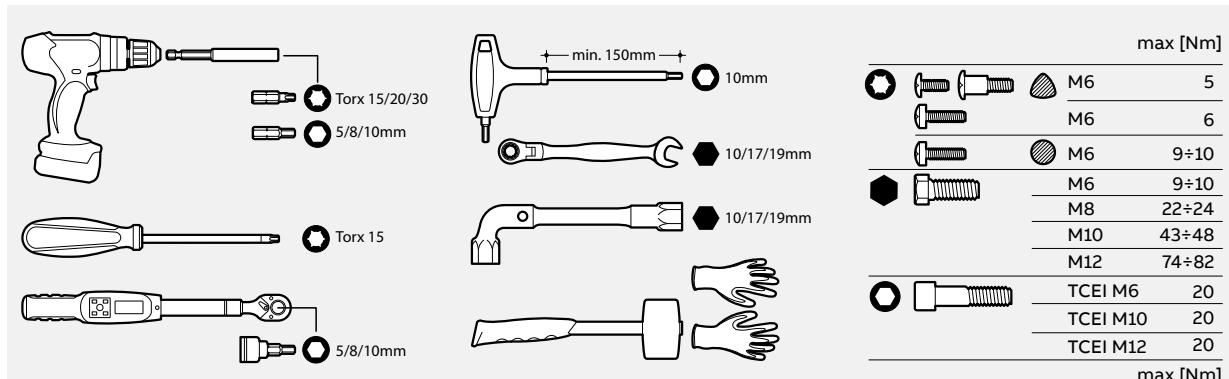


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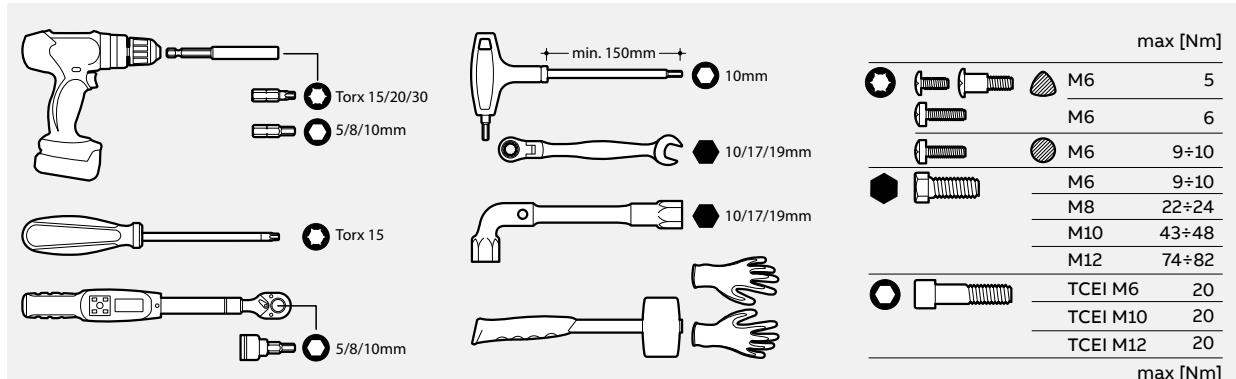




## Top sealing kit IPX1



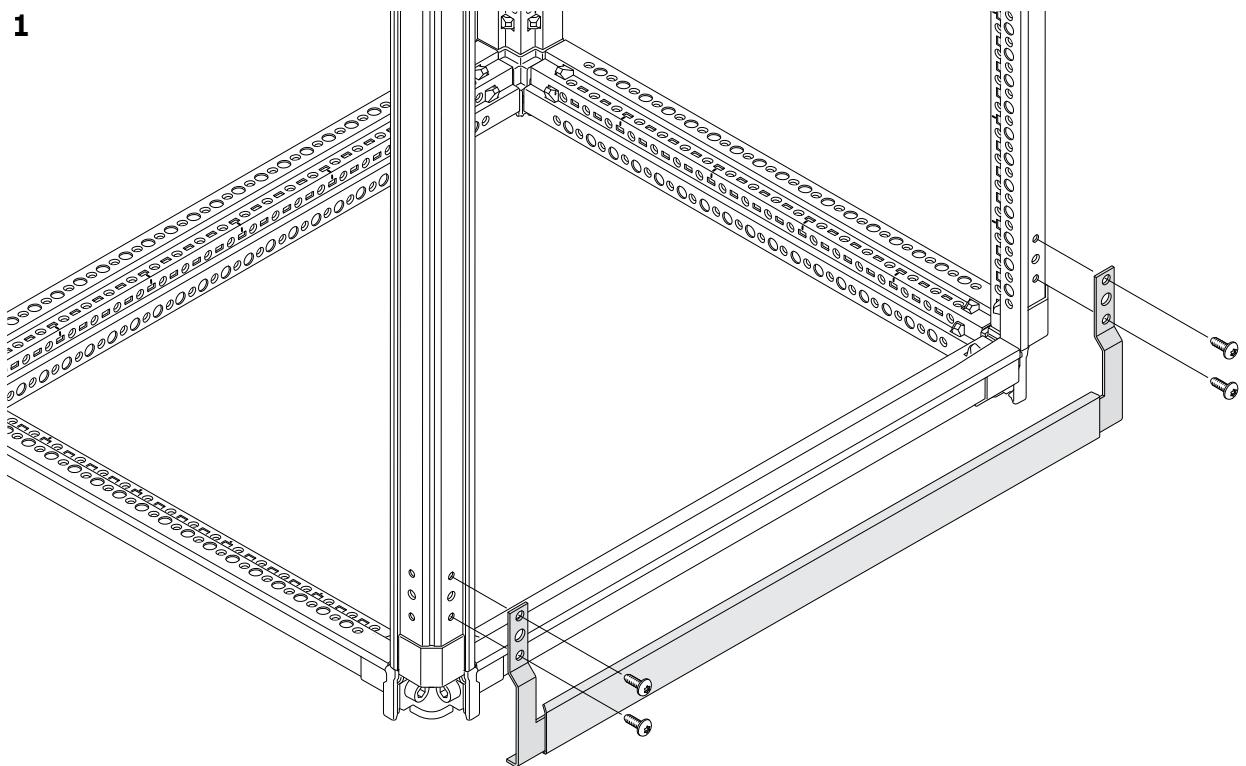
## Closing profiles IP30



PPFH....



8x M6x10 Torx 30

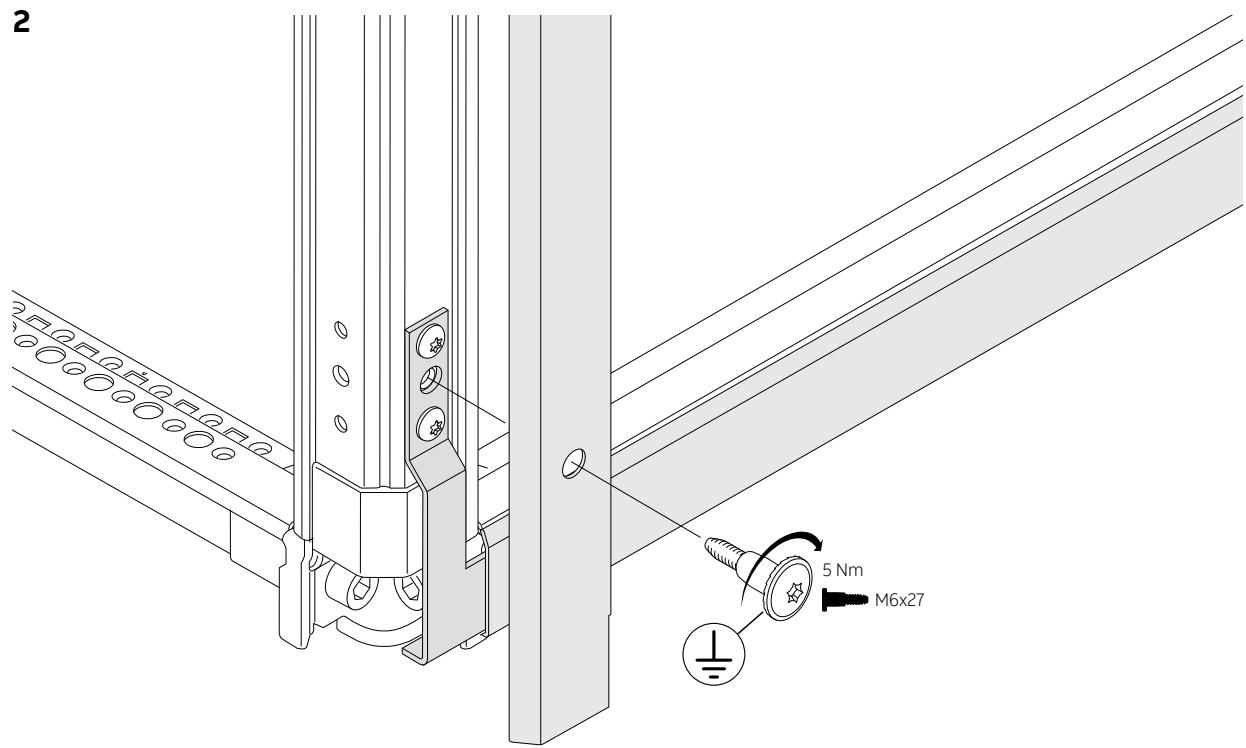
**1**

PPFV....

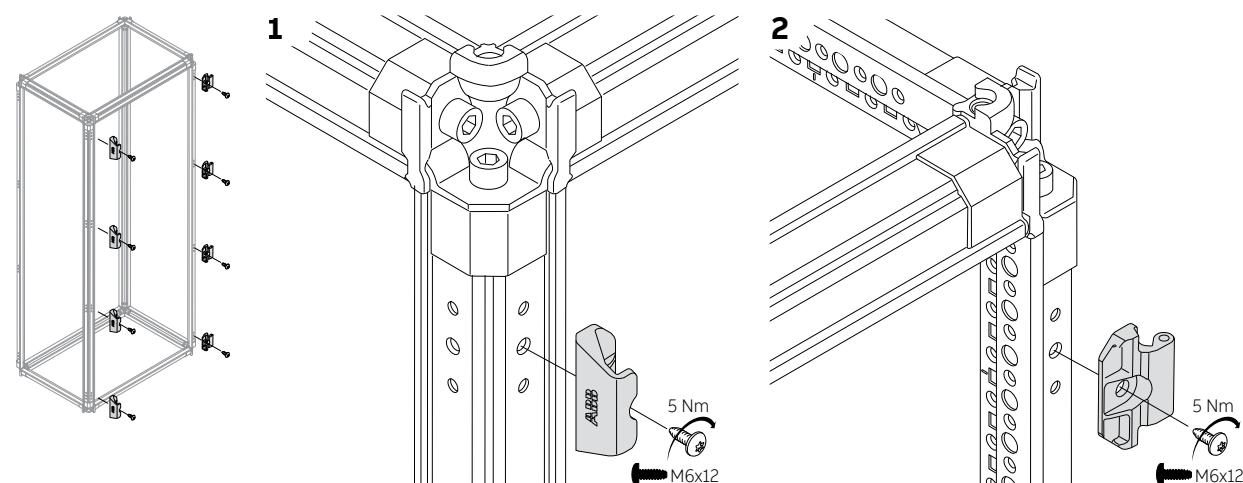
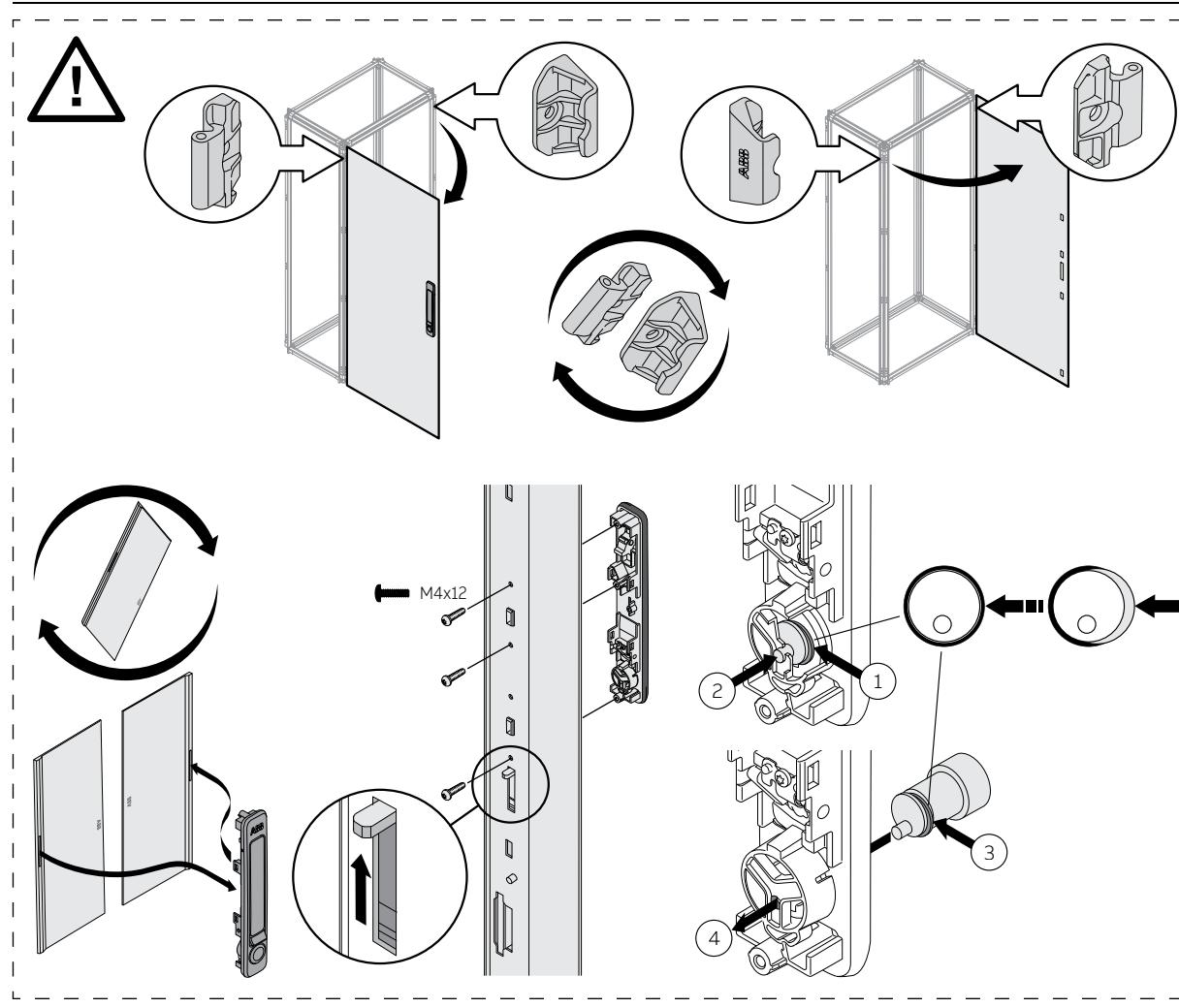
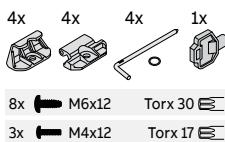
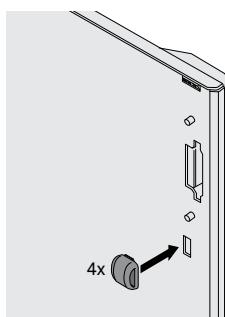
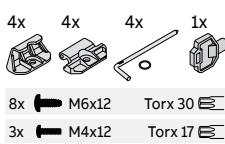
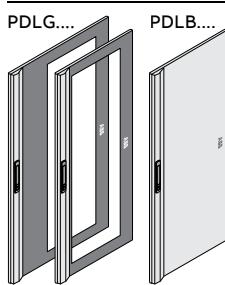
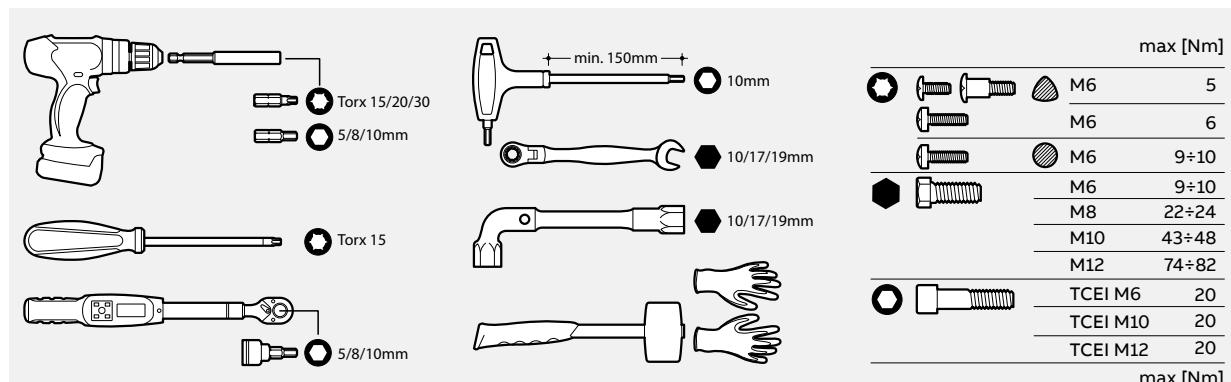
PPCV....

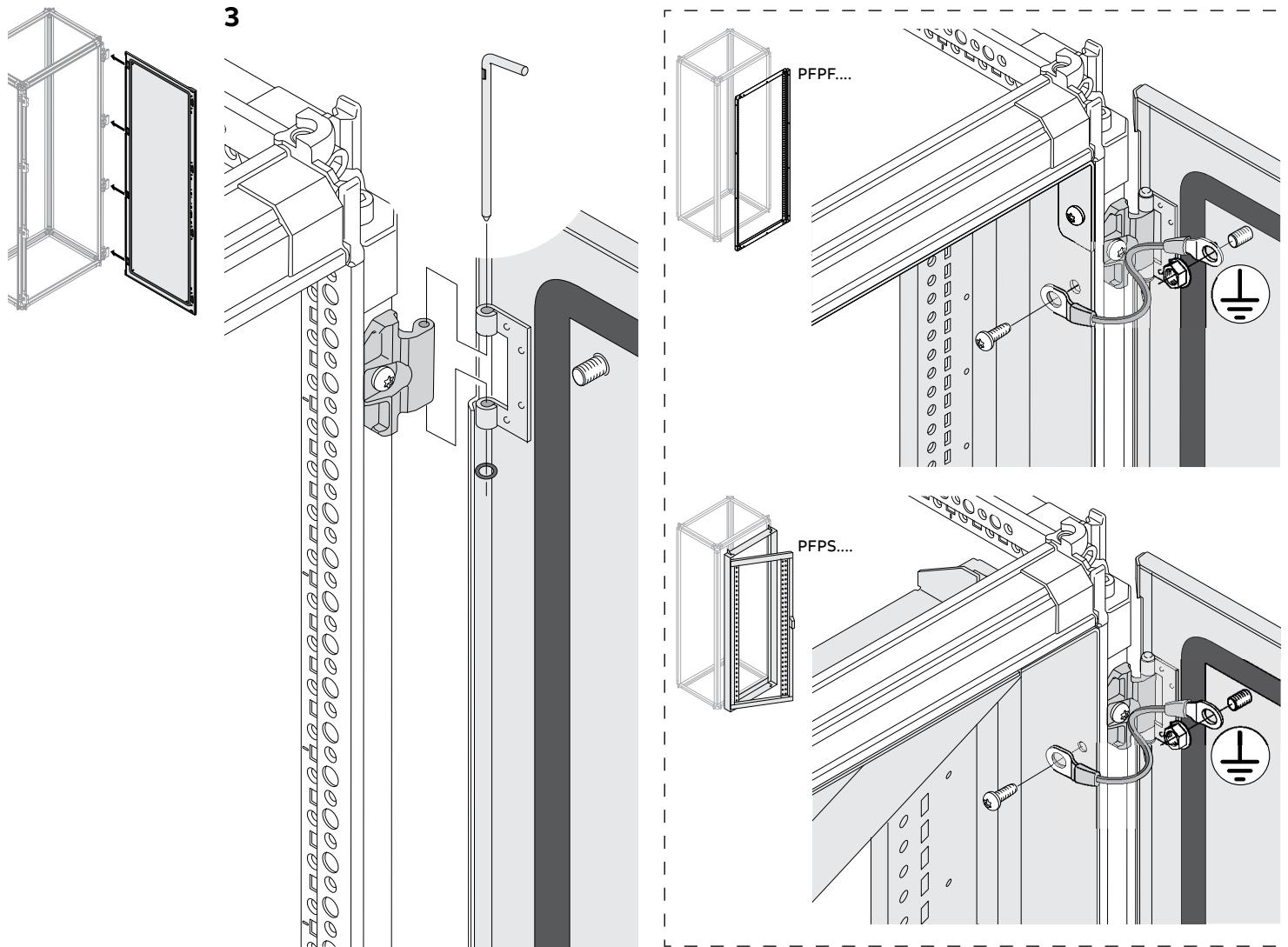


4x M6x27 Torx 30

**2**

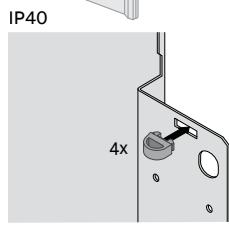
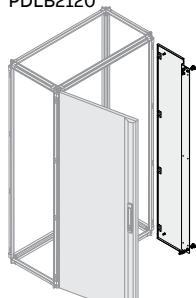
## Single door



**3**

## Double door

PDLB8120  
PDLB2120

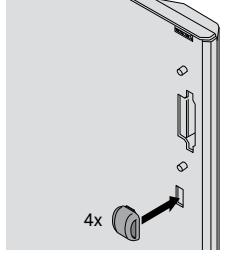


2x	4x	4x
2x		
1x		
3x	M4x18	Torx 15
4x	M6x10	Torx 20
4x	M6x12	
10x	M6x10	Torx 30

PDLG8500  
PDLG2500  
PDLB8500  
PDLB2500

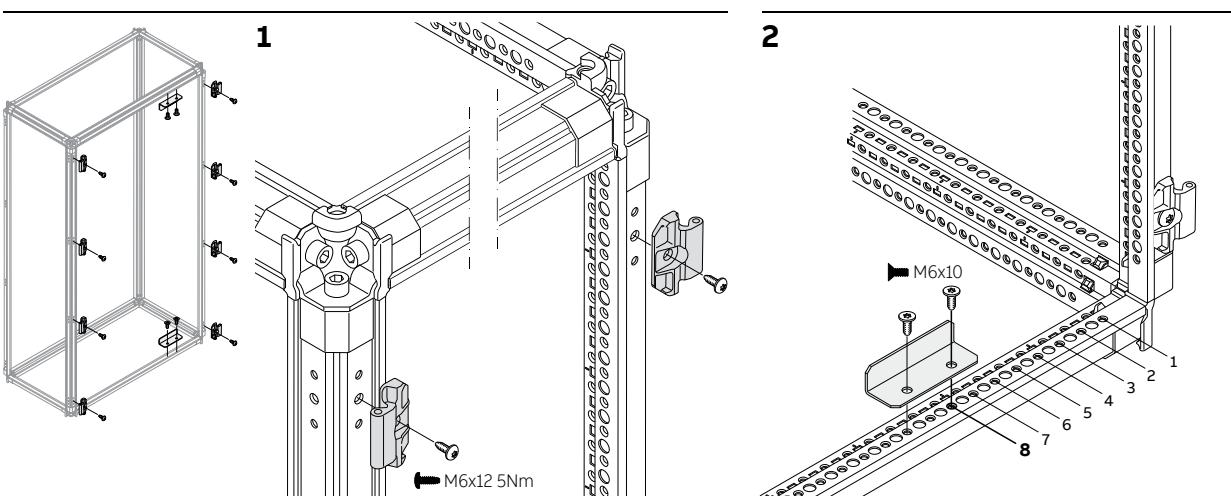
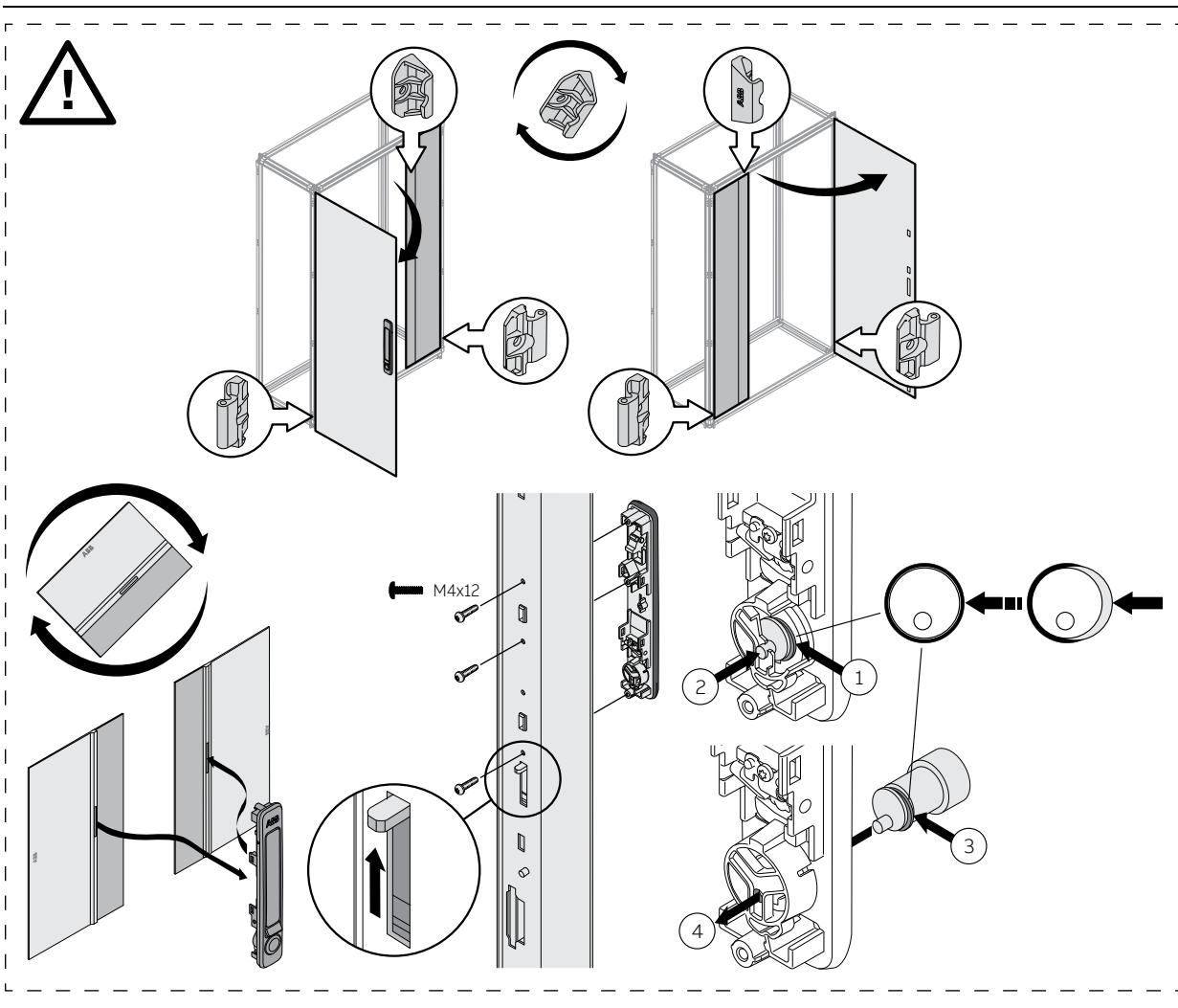
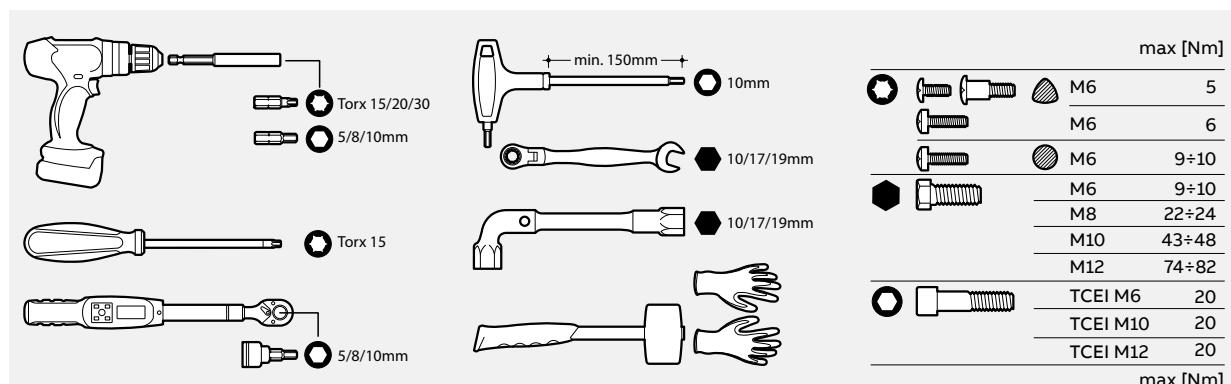


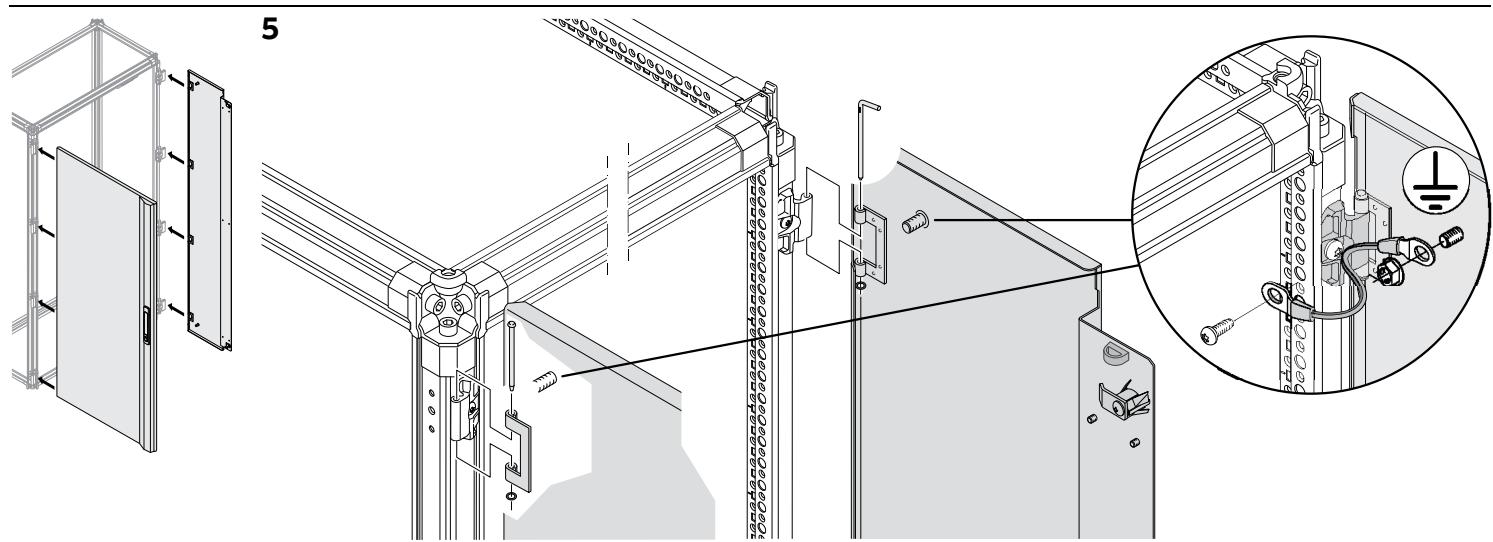
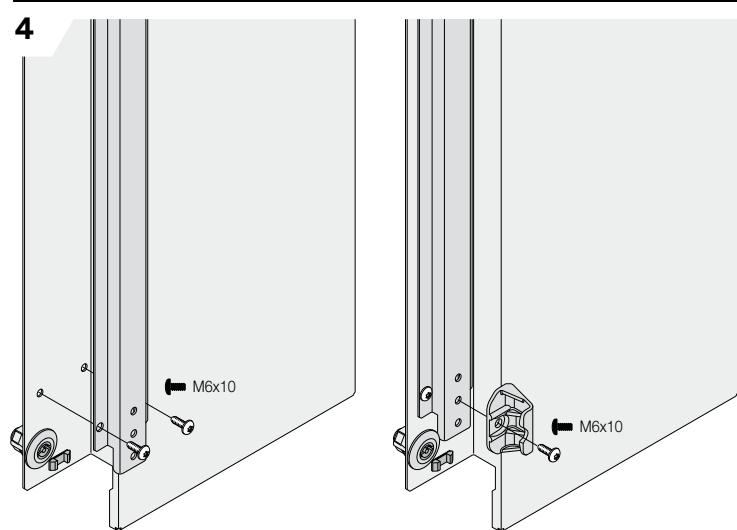
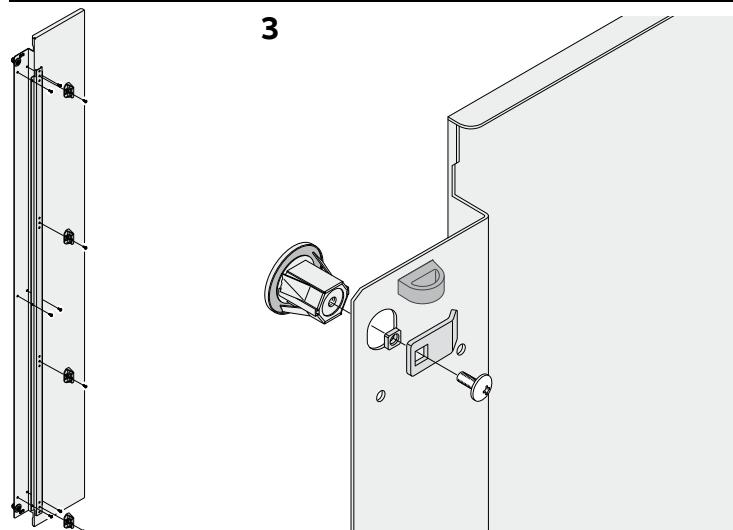
IP40



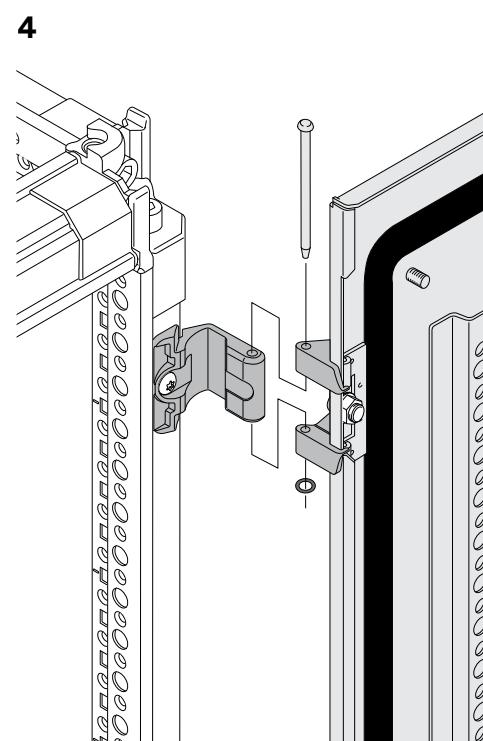
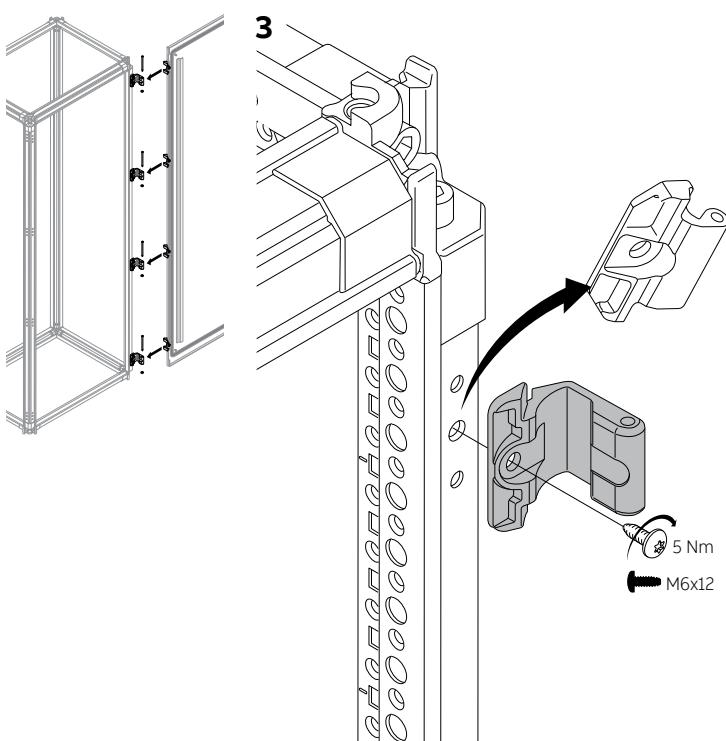
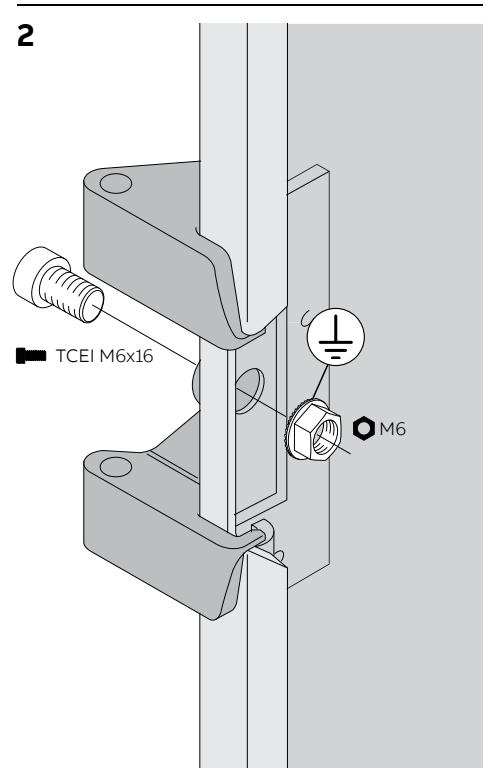
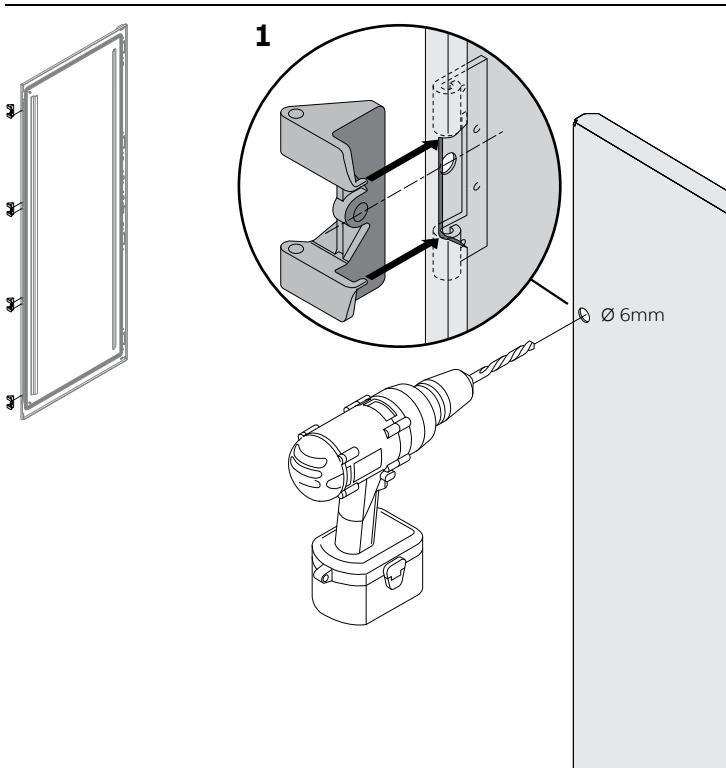
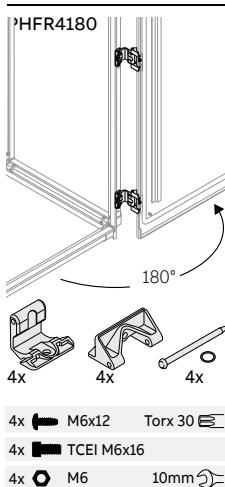
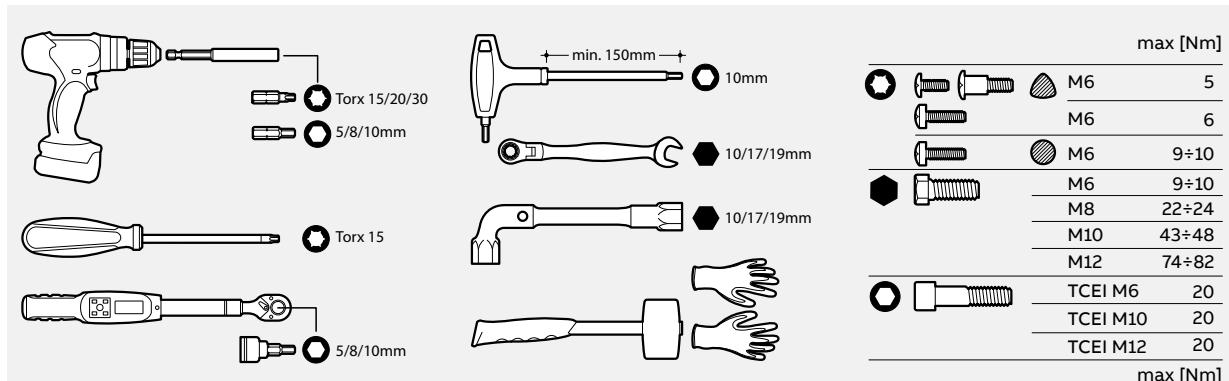
4x	4x	4x
8x		

3x	M4x18	Torx 15
8x	M6x12	Torx 30

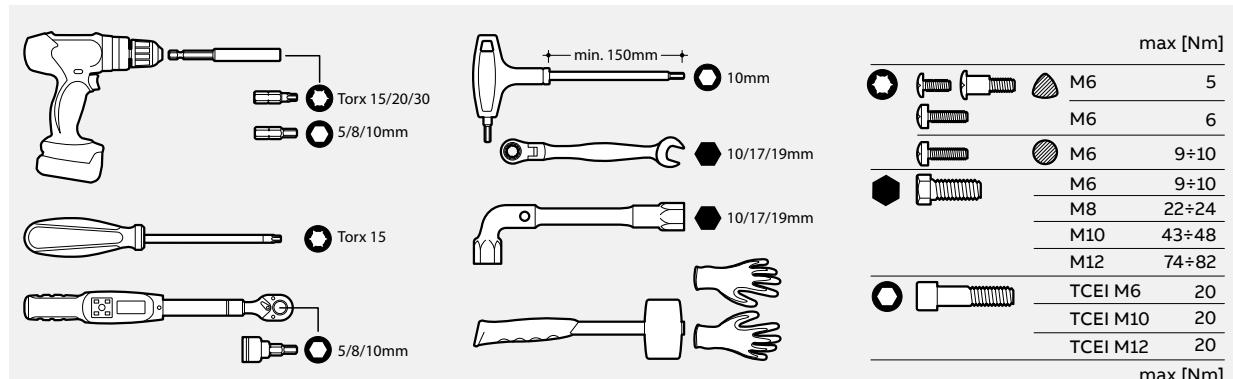




## Door opening kit 180°



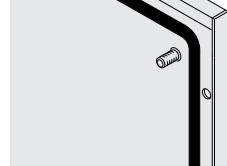
## Side/Rear panels



PPEB...6



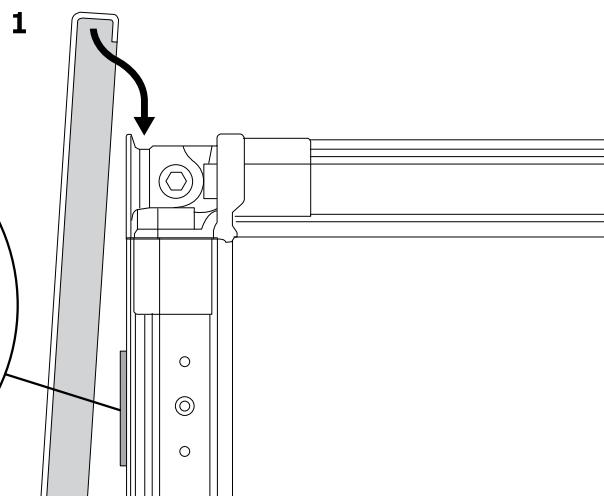
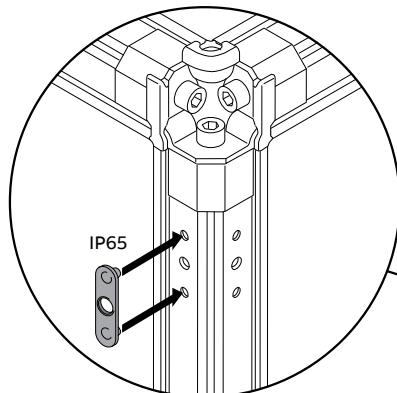
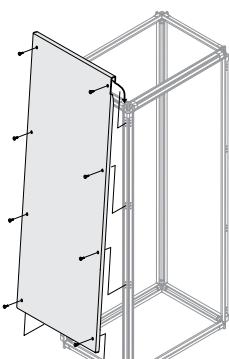
IP65



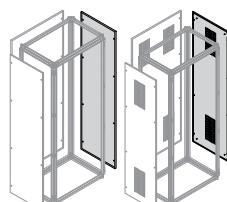
8x

8x M6x27

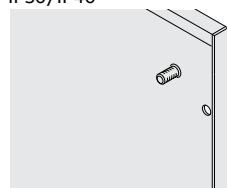
Torx 30



PPEB...0 PPEA...



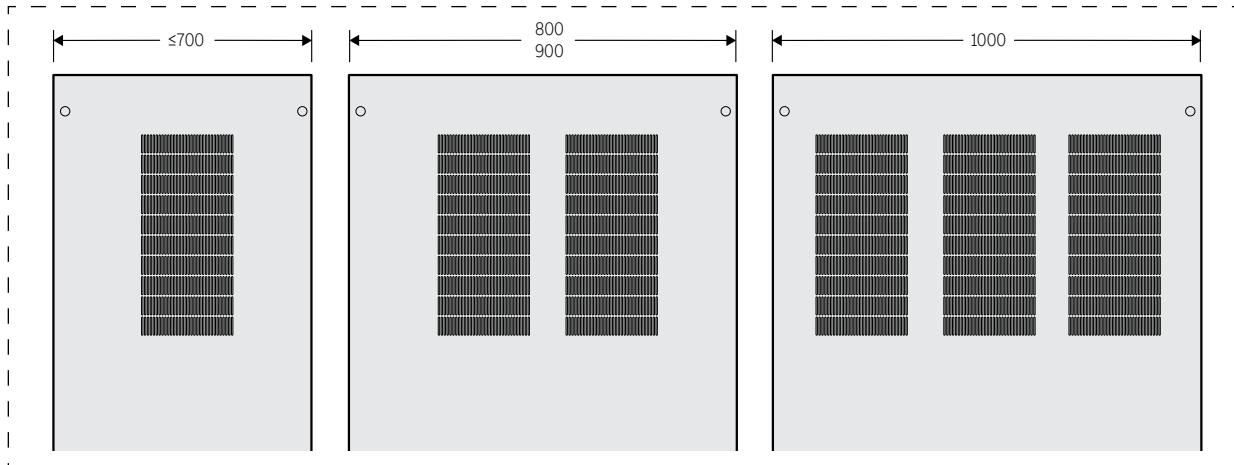
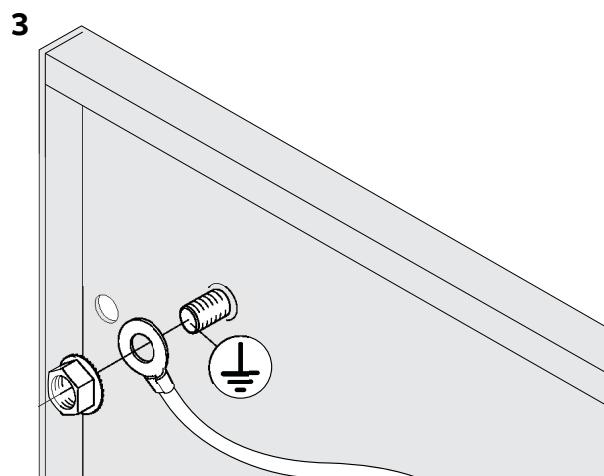
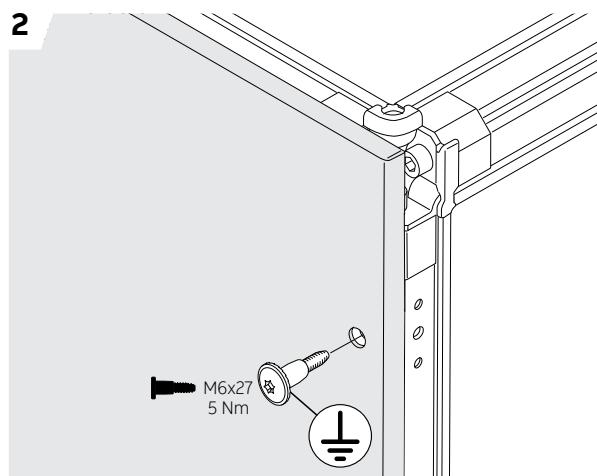
IP30/IP40



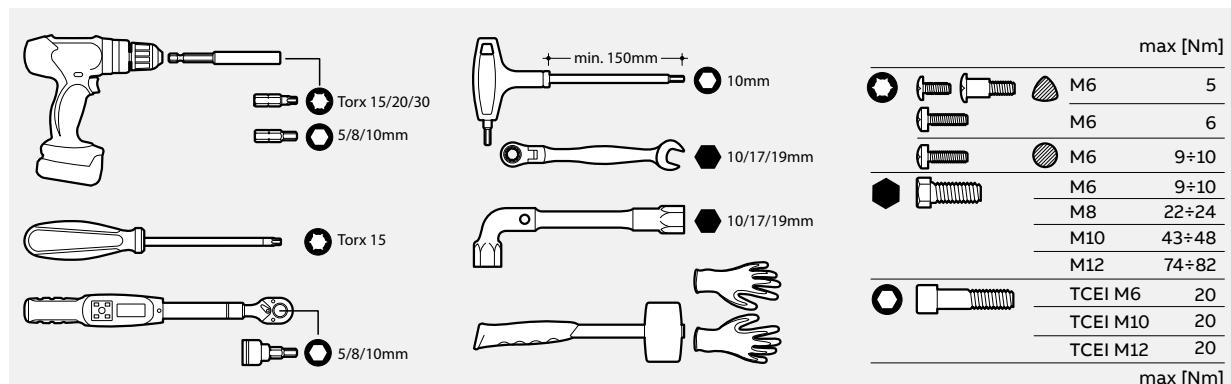
8x

8x M6x27

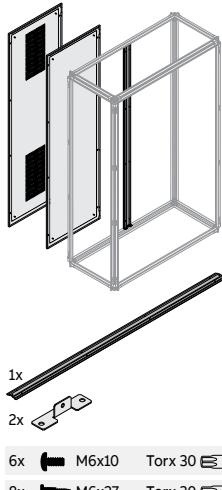
Torx 30



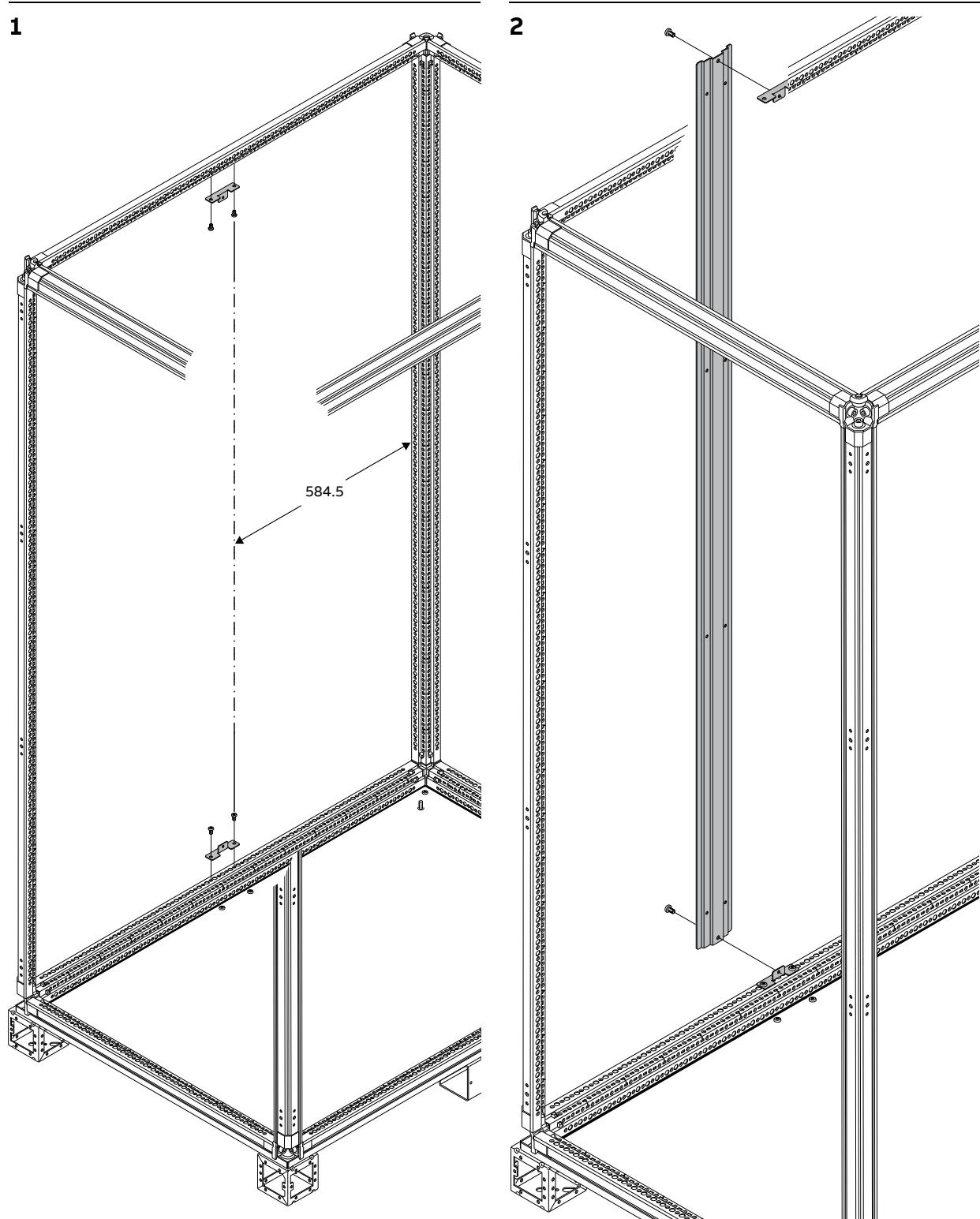
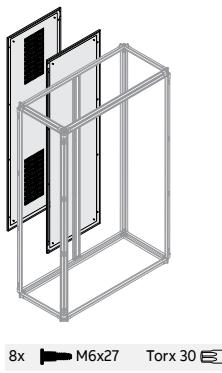
## Rear panels W=1250mm

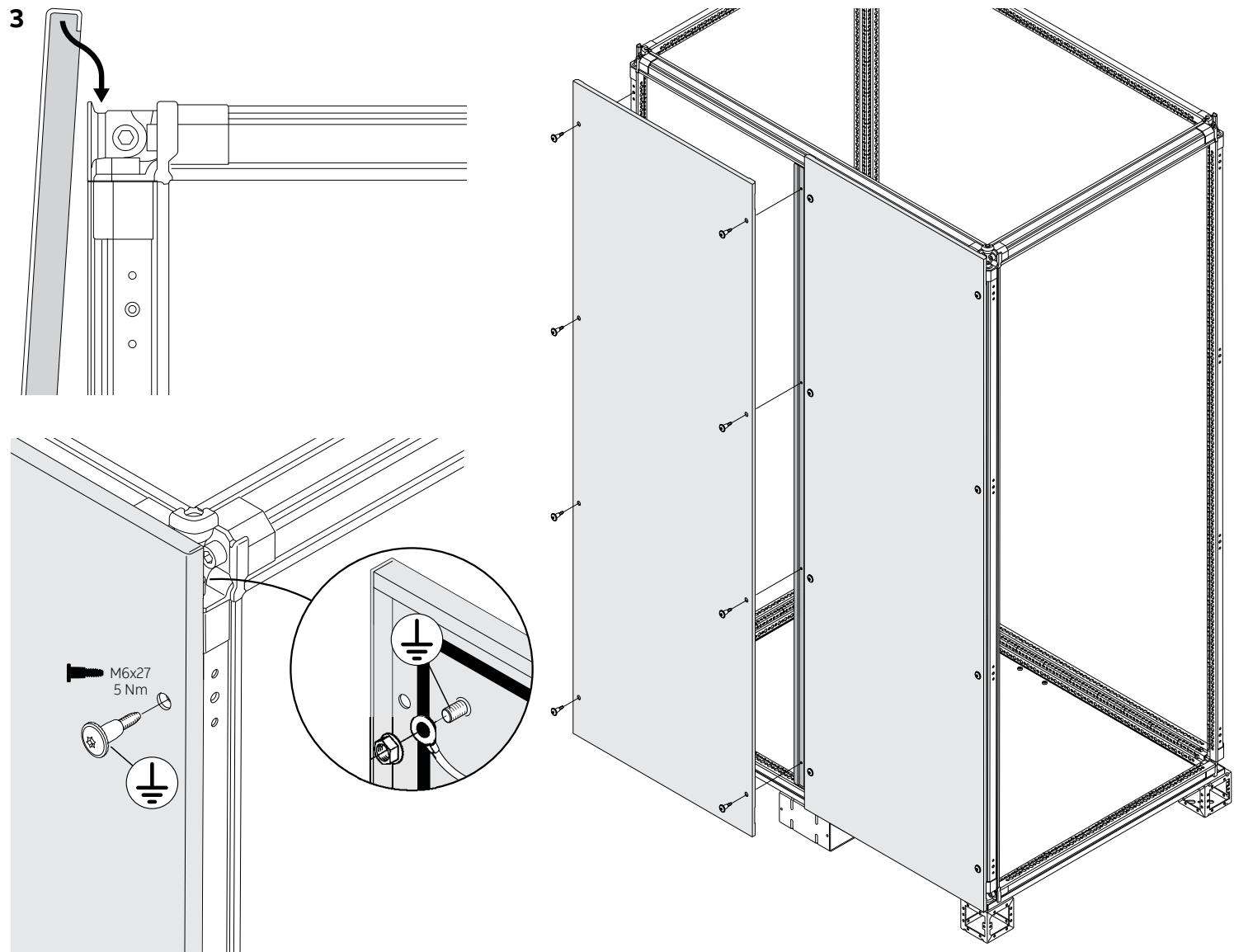


PPRB1820-PPRB2020  
PPRA1820-PPRA2020

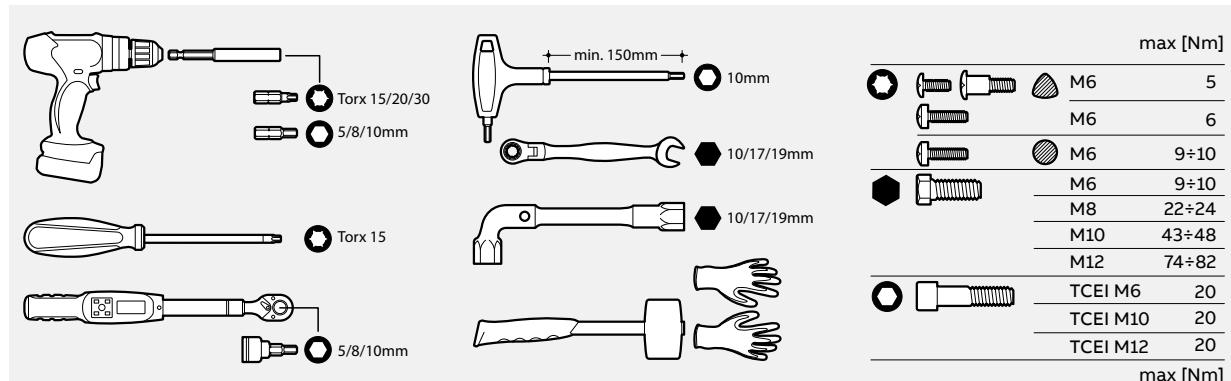


PPRA1820-PPRA2020  
PPLA1820-PPLA2020

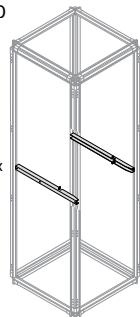
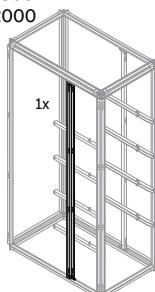
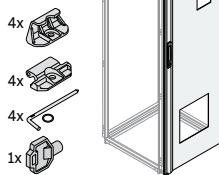




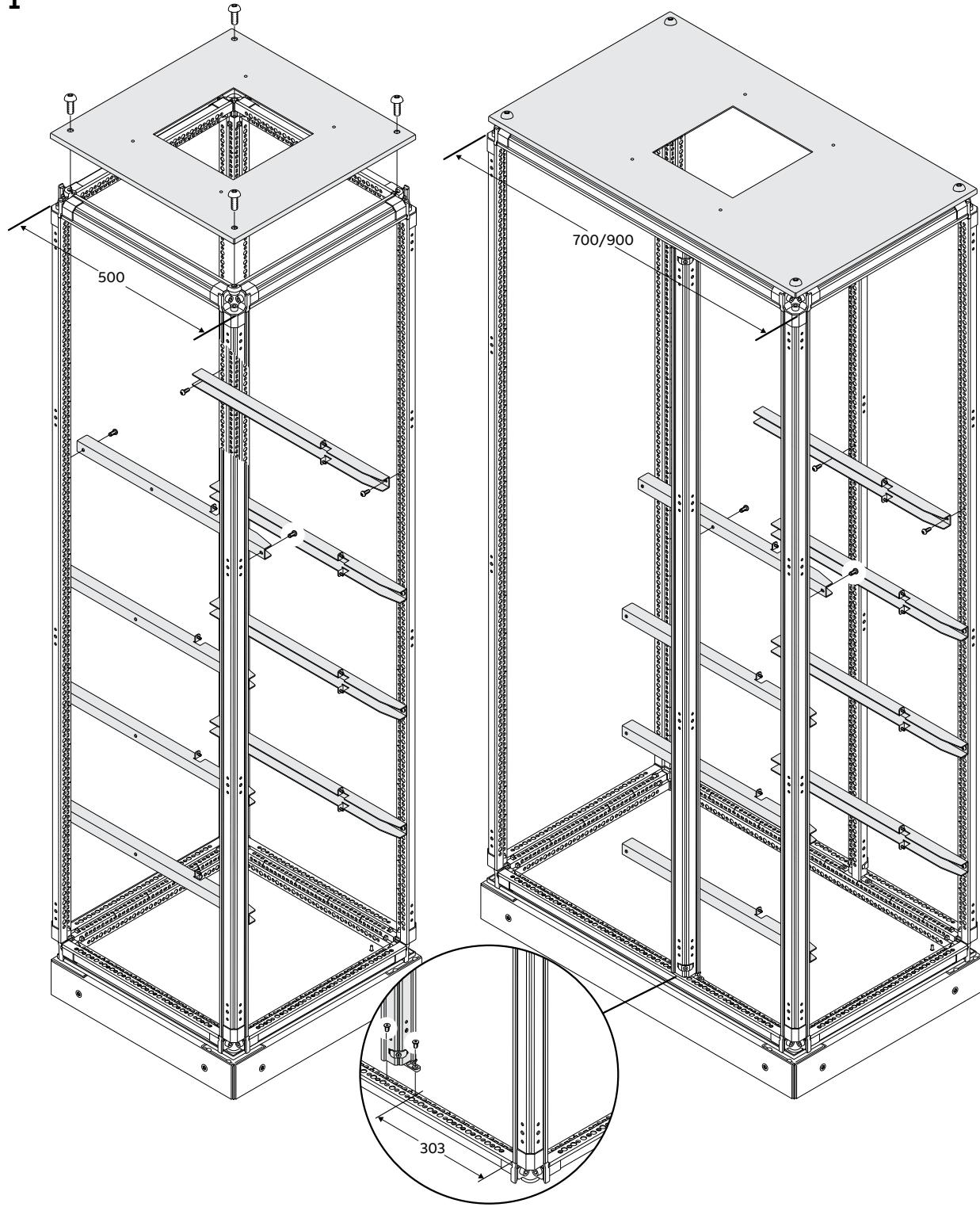
## Capacitor bank/Easy Line XLP

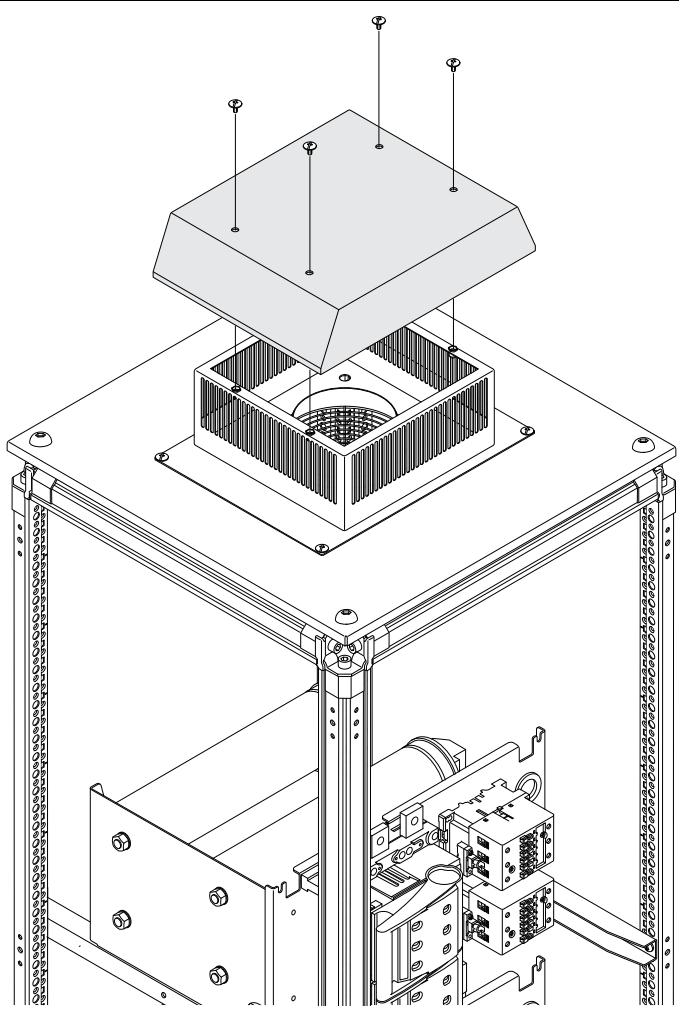
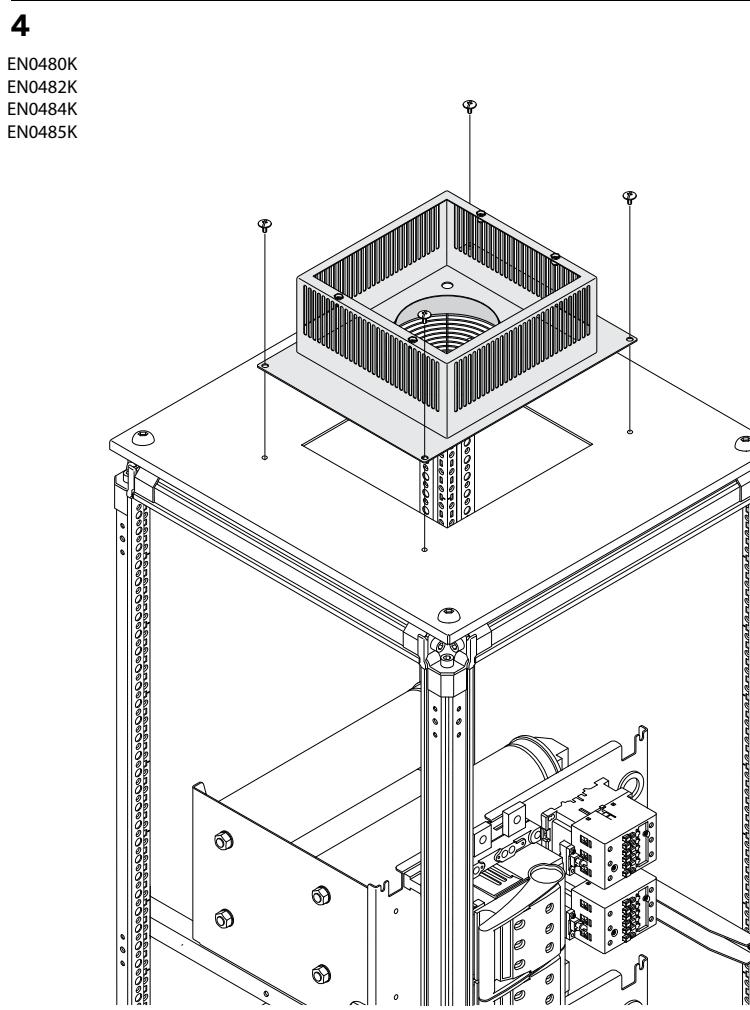
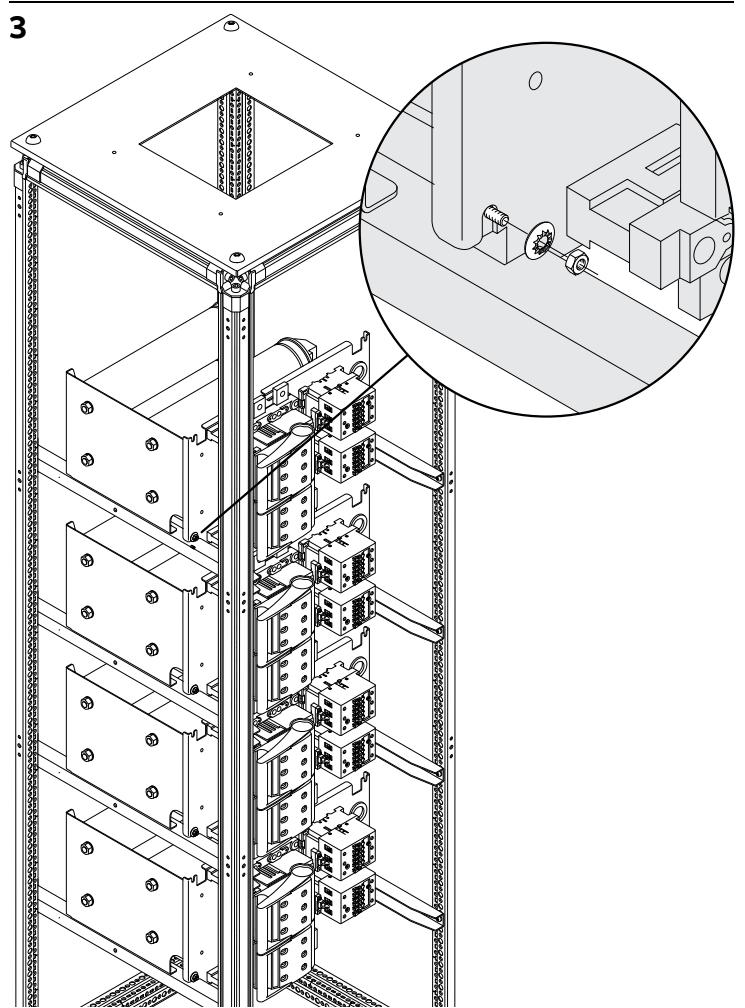
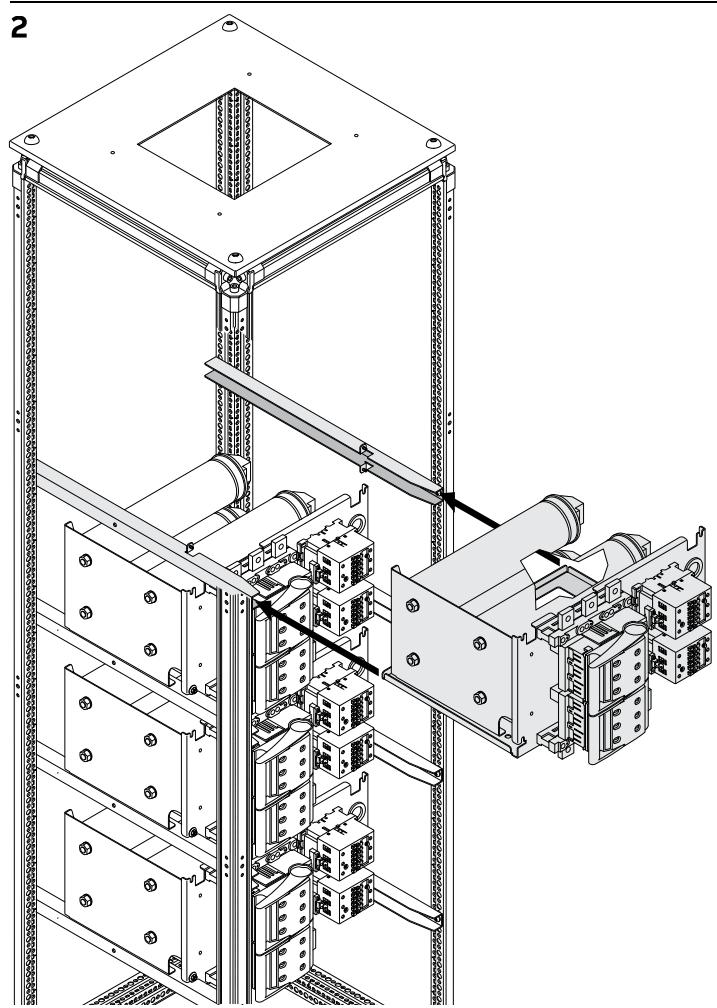


PFRJ0500

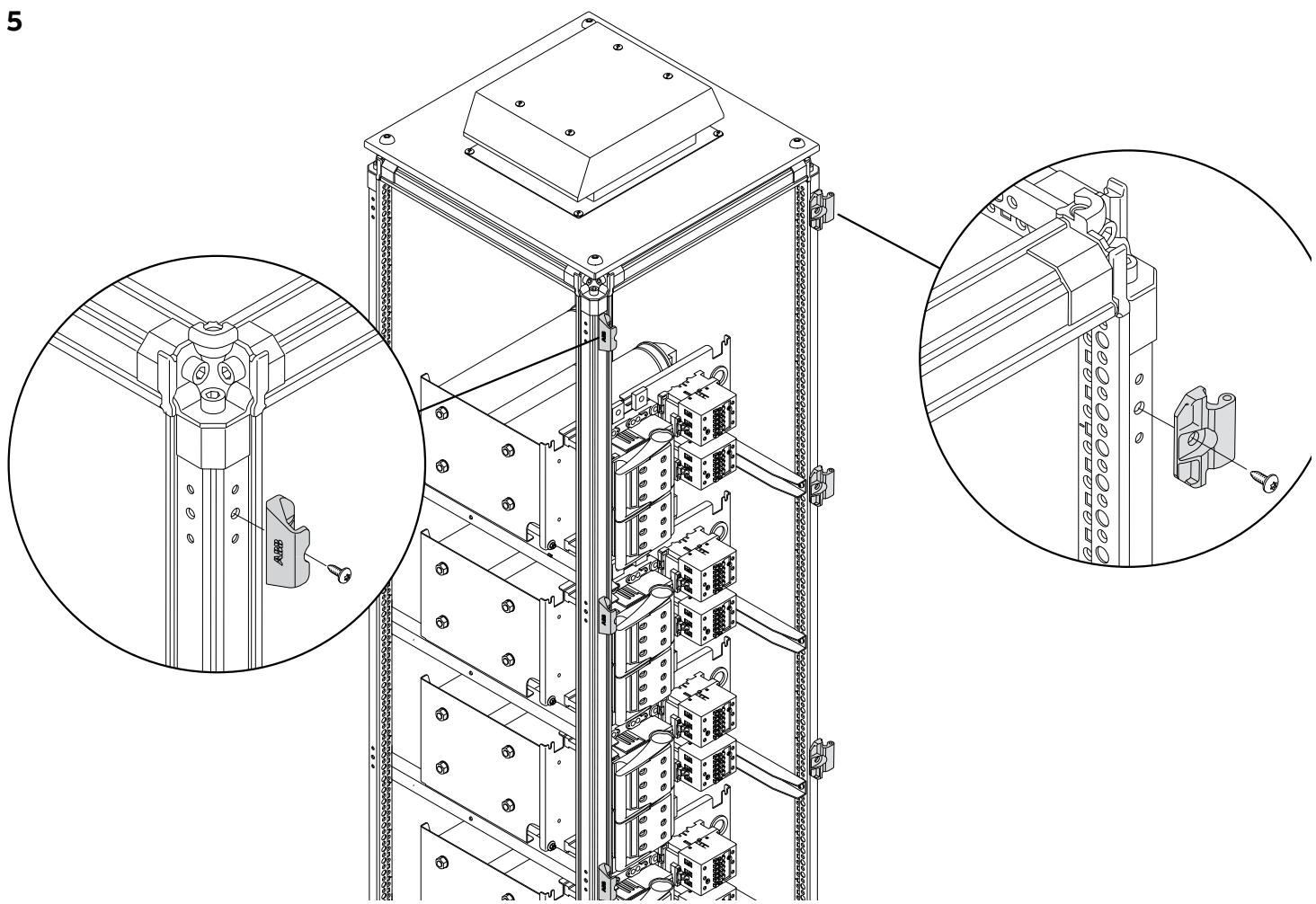
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PUCM2000PDLB1852  
PDLB2052

PTBO....

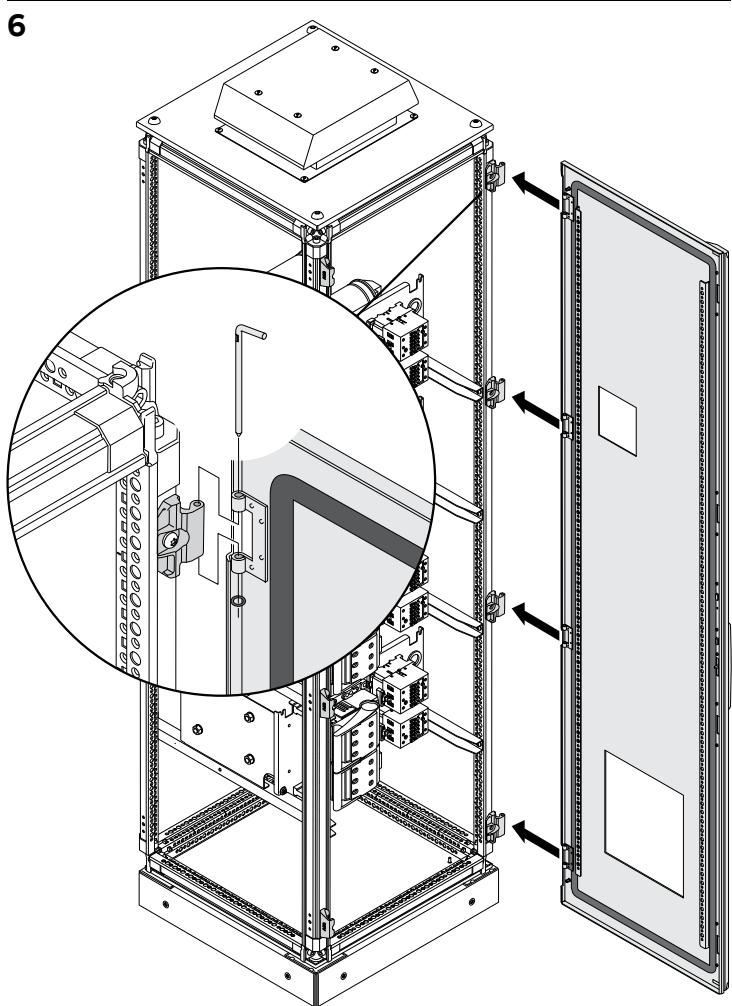
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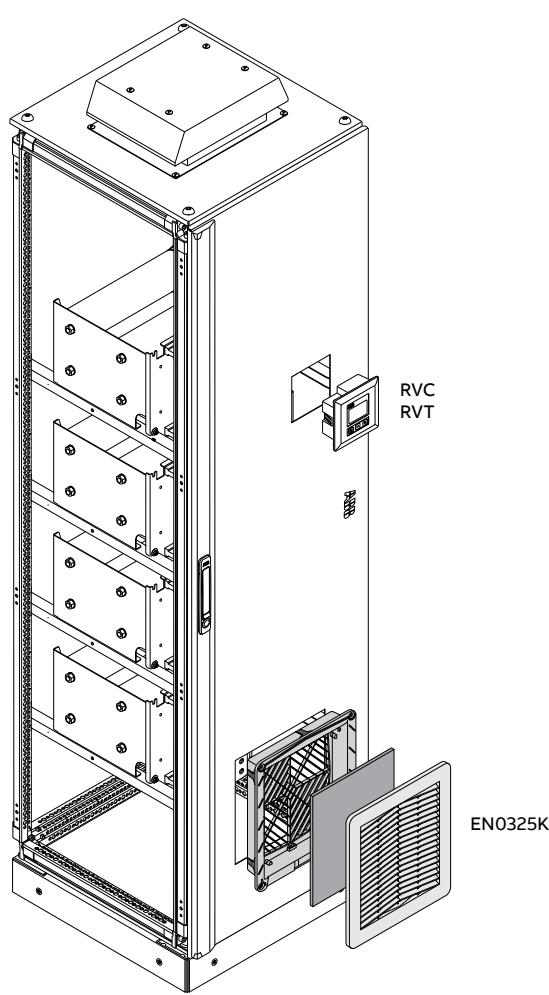
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5

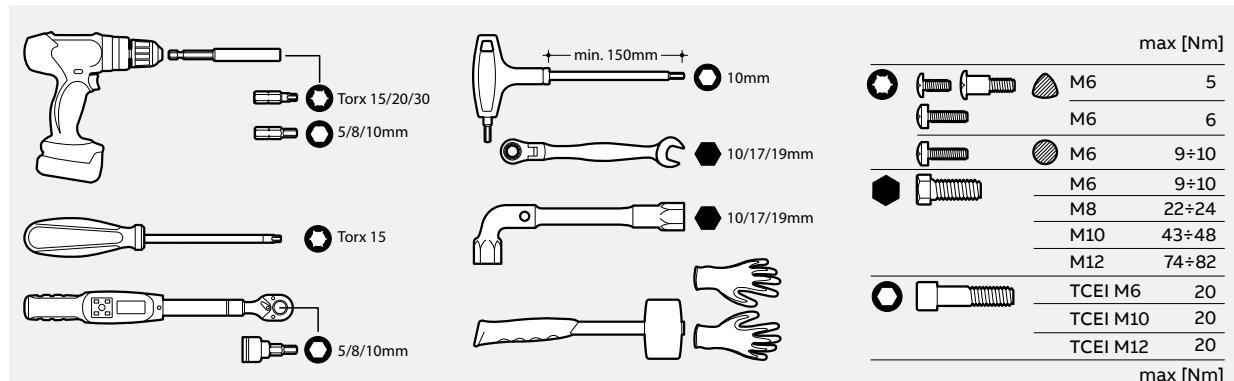
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6

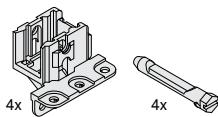
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7

## CombiLine M

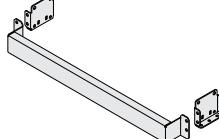


PBCM0004

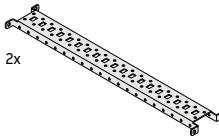


16x M6x20 Torx 20

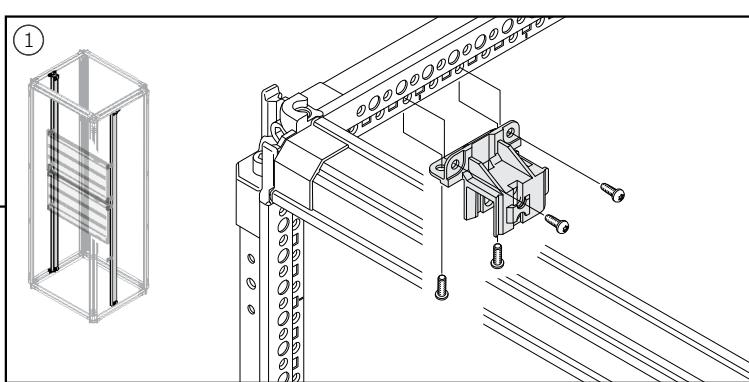
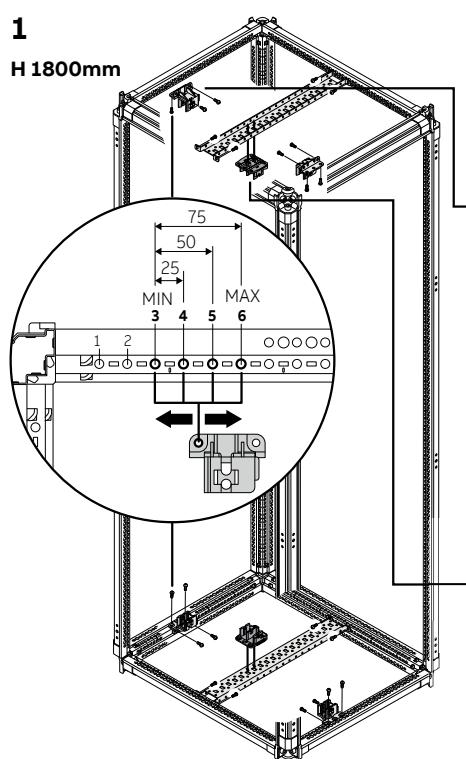
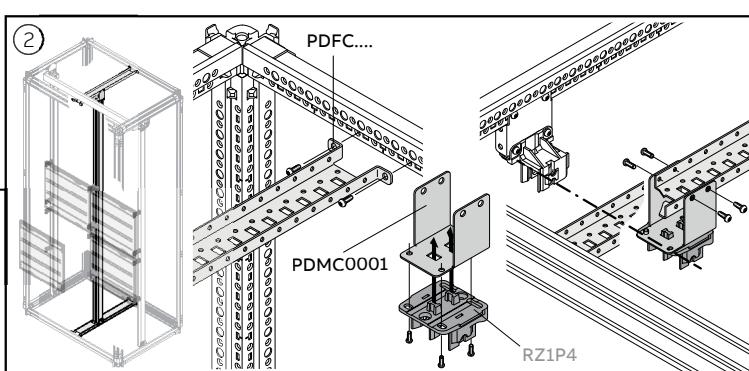
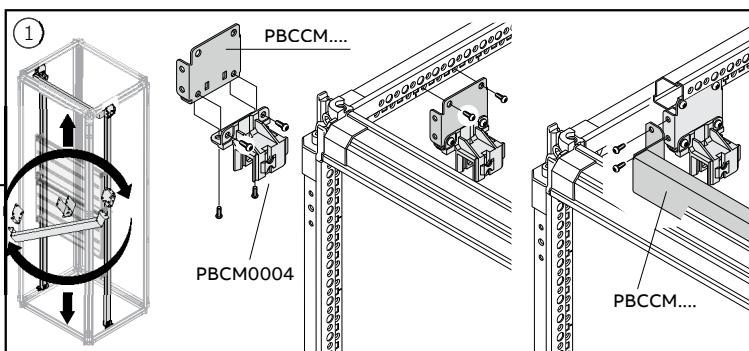
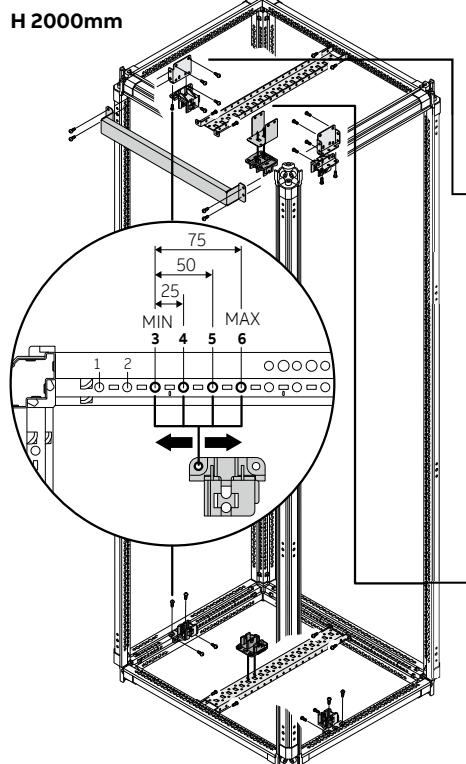
PBCCM....



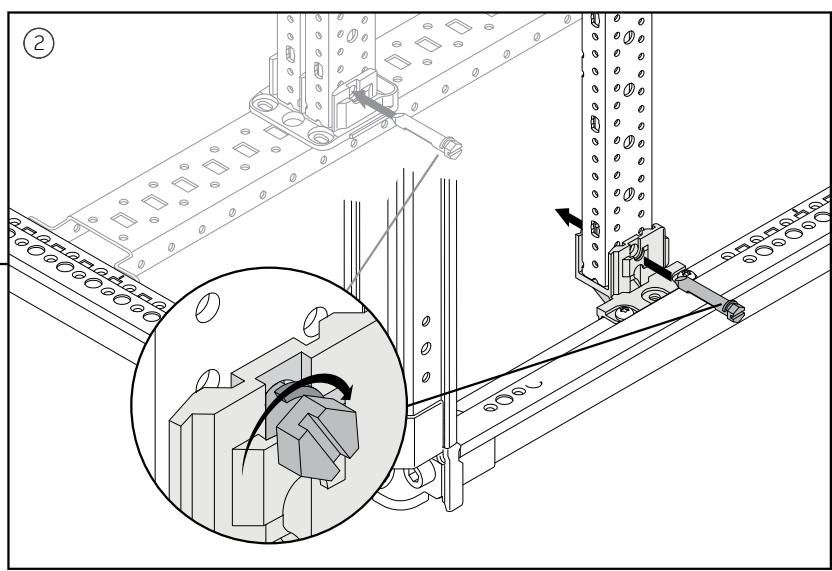
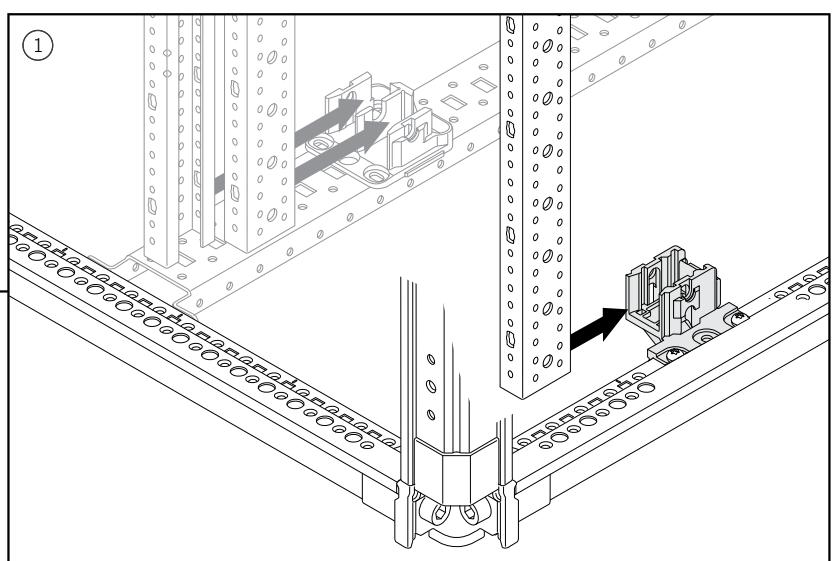
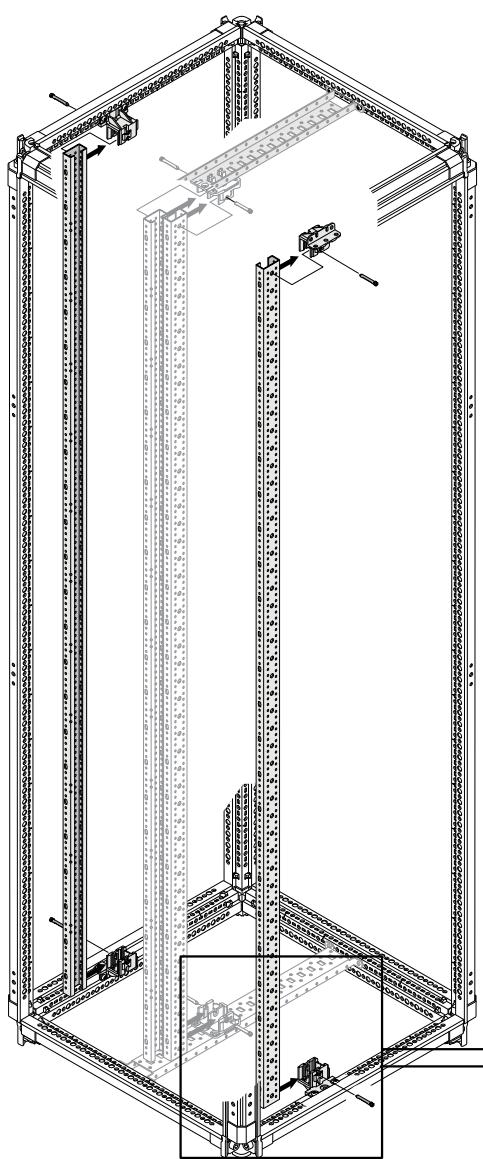
PDFC....



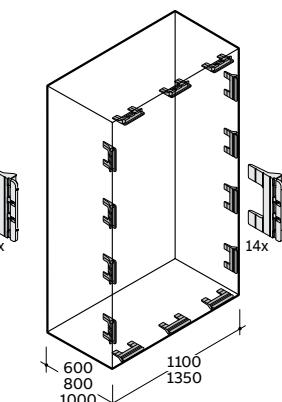
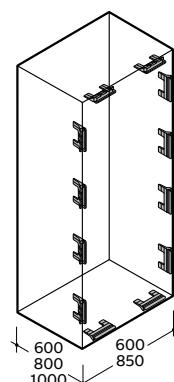
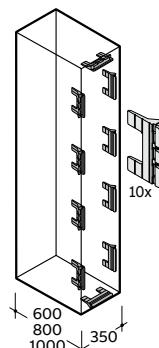
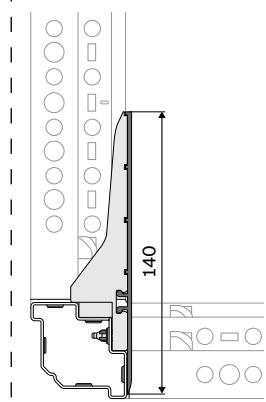
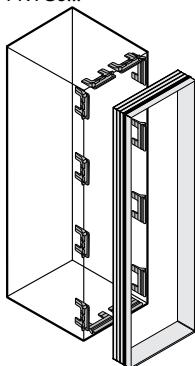
8x M6x30 Torx 20

**1****H 1800mm****H 2000mm**

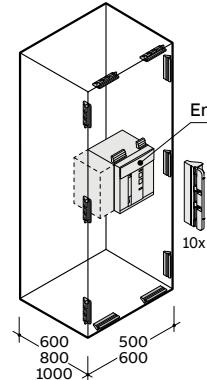
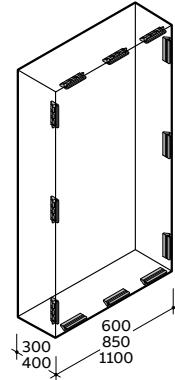
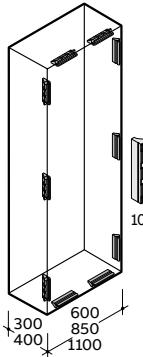
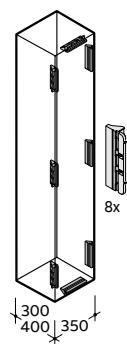
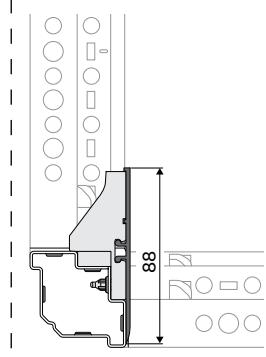
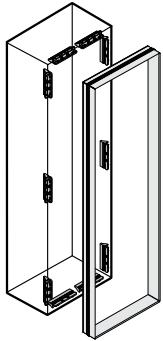
2

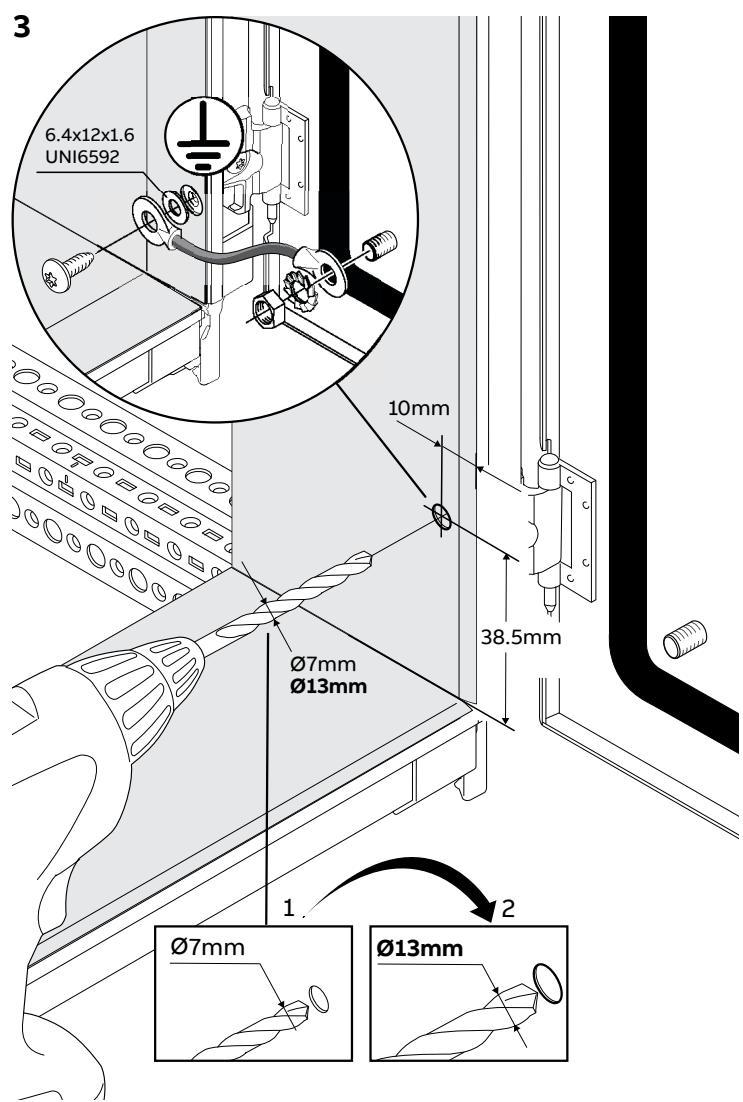
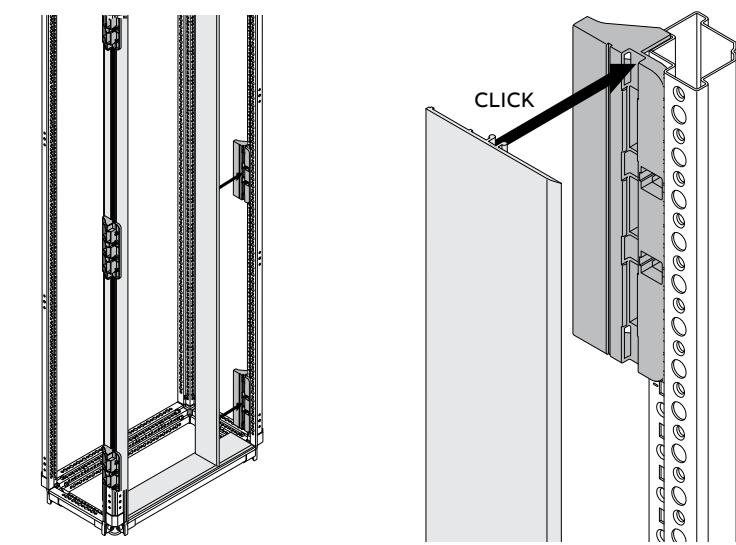
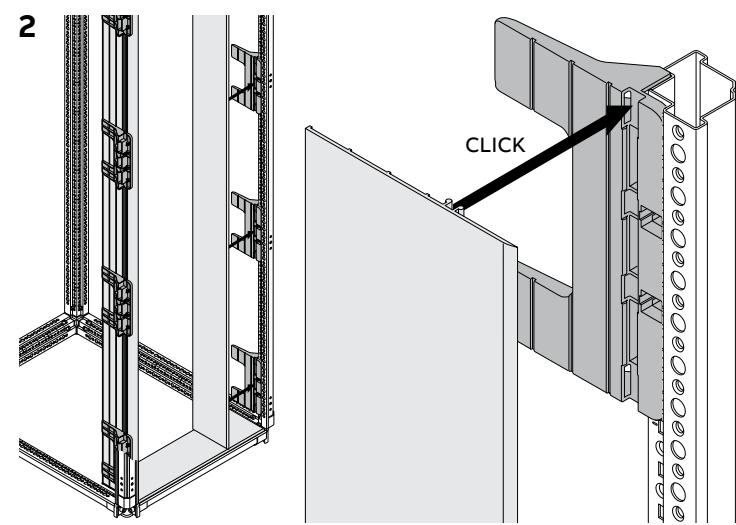
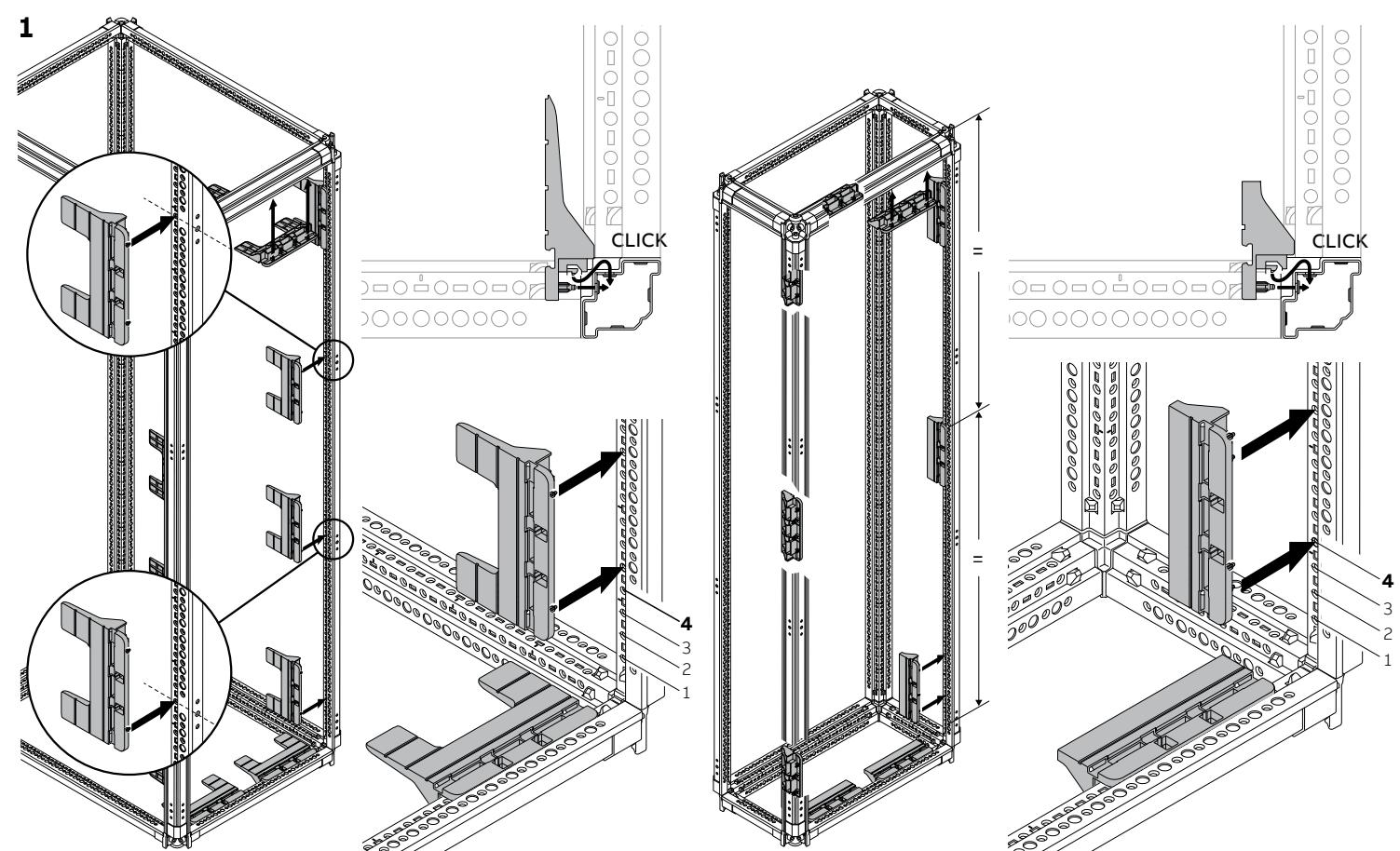


PNTG6...

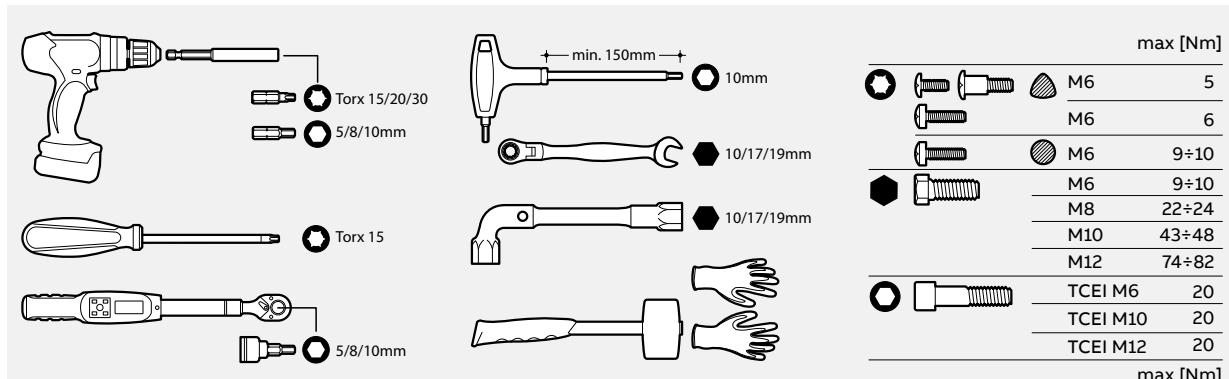


PNTG1...

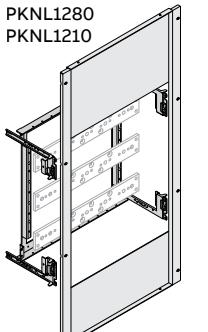




## InLine II

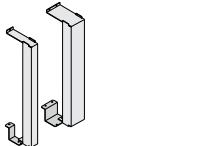


PKNL1260  
PKNL1280  
PKNL1210



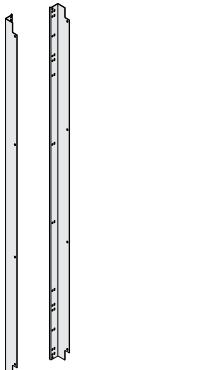
8x 4x 8x   
4x M6x10 Torx 30   
12x M6x10 Torx 30

PCNL0050  
PCNL0100



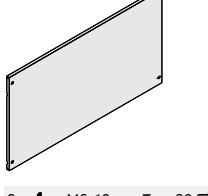
6x M6x10 Torx 30

PFNL....

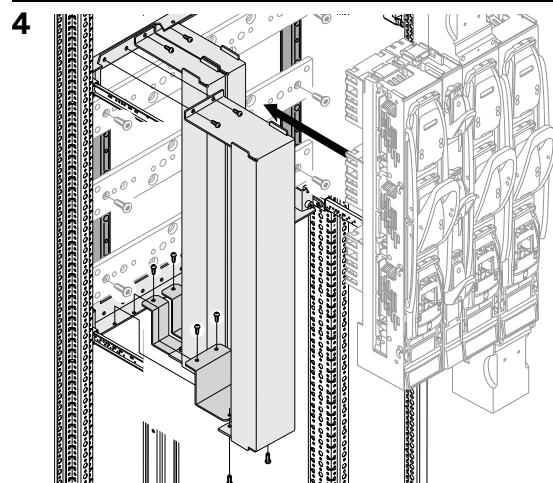
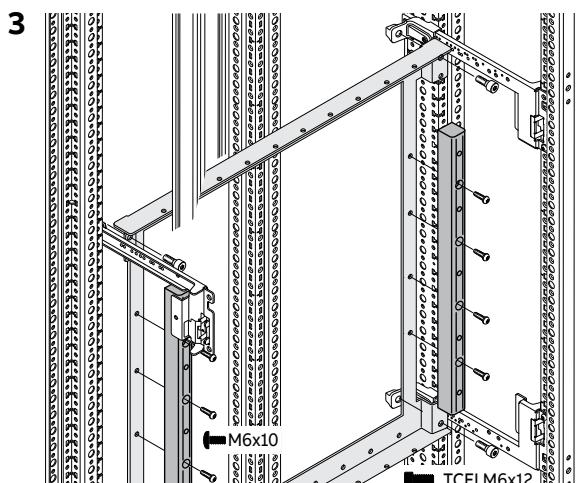
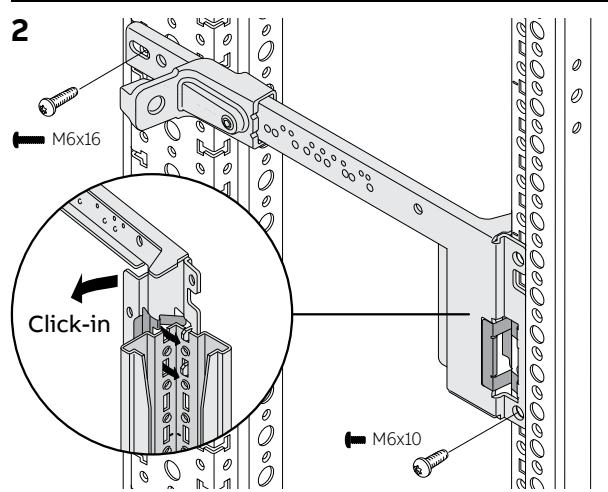
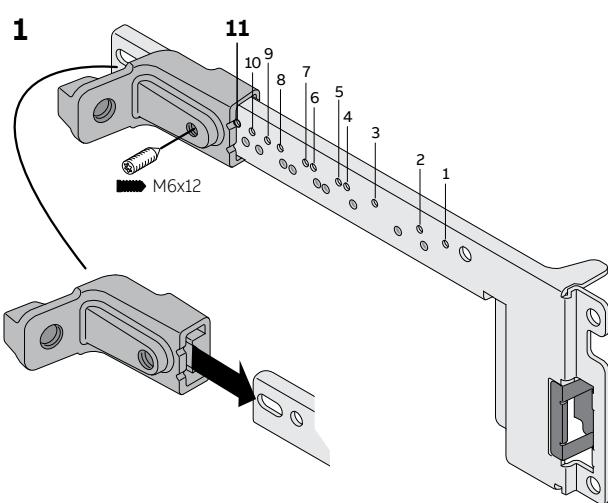
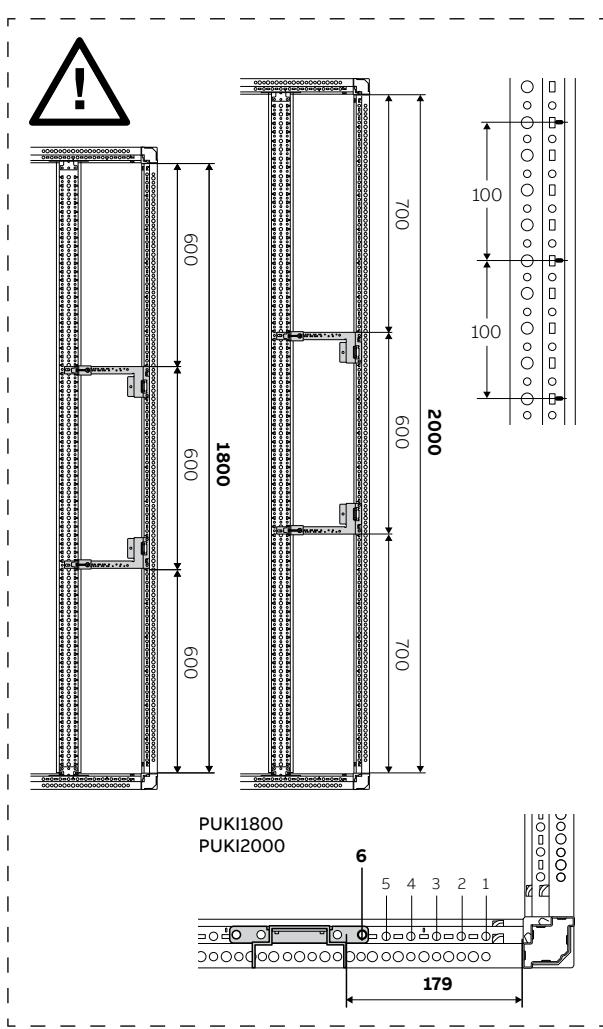


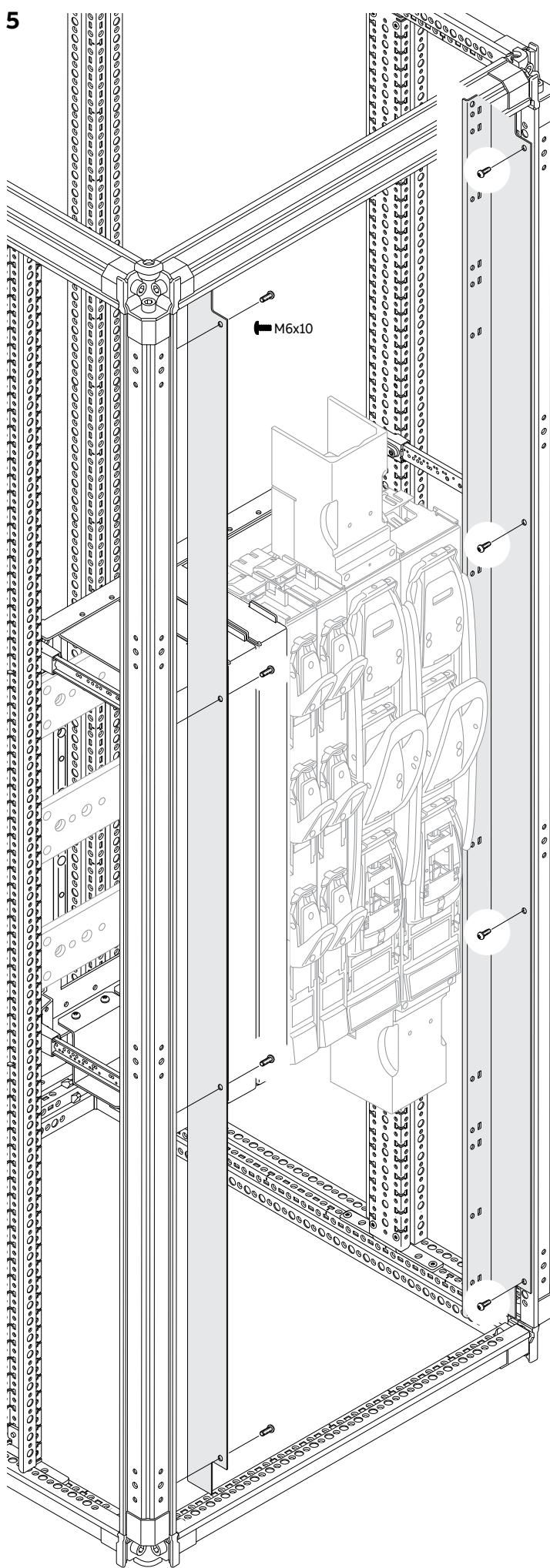
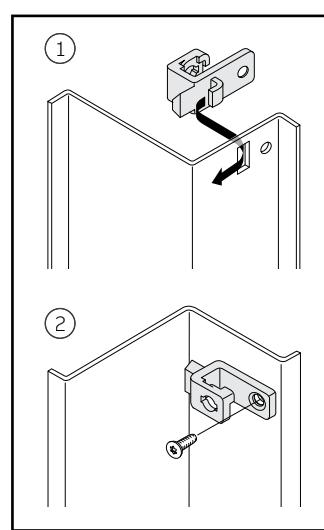
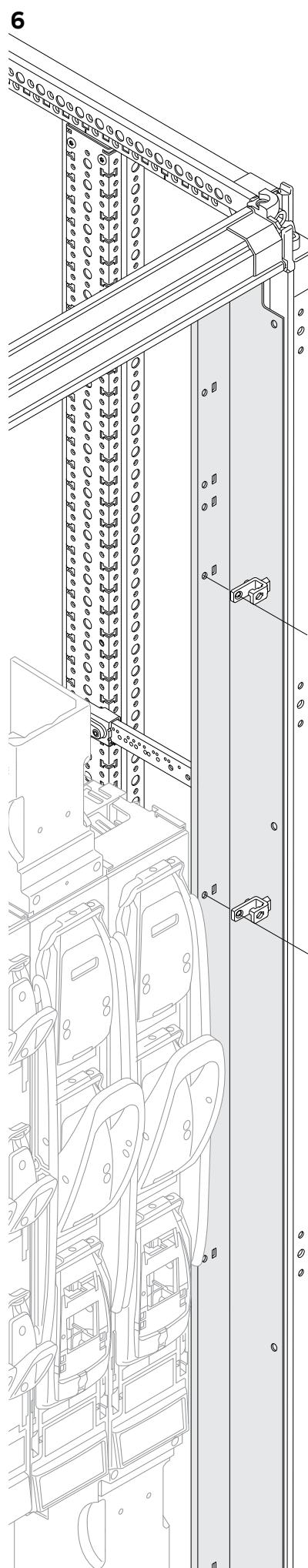
8x M6x10 Torx 30

PPNL....

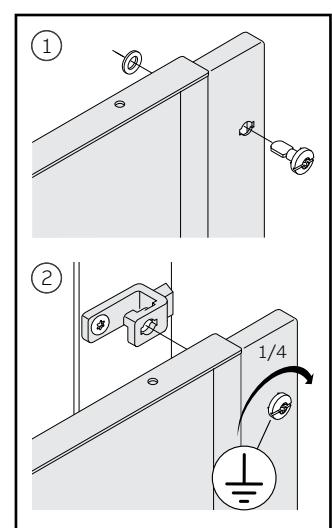
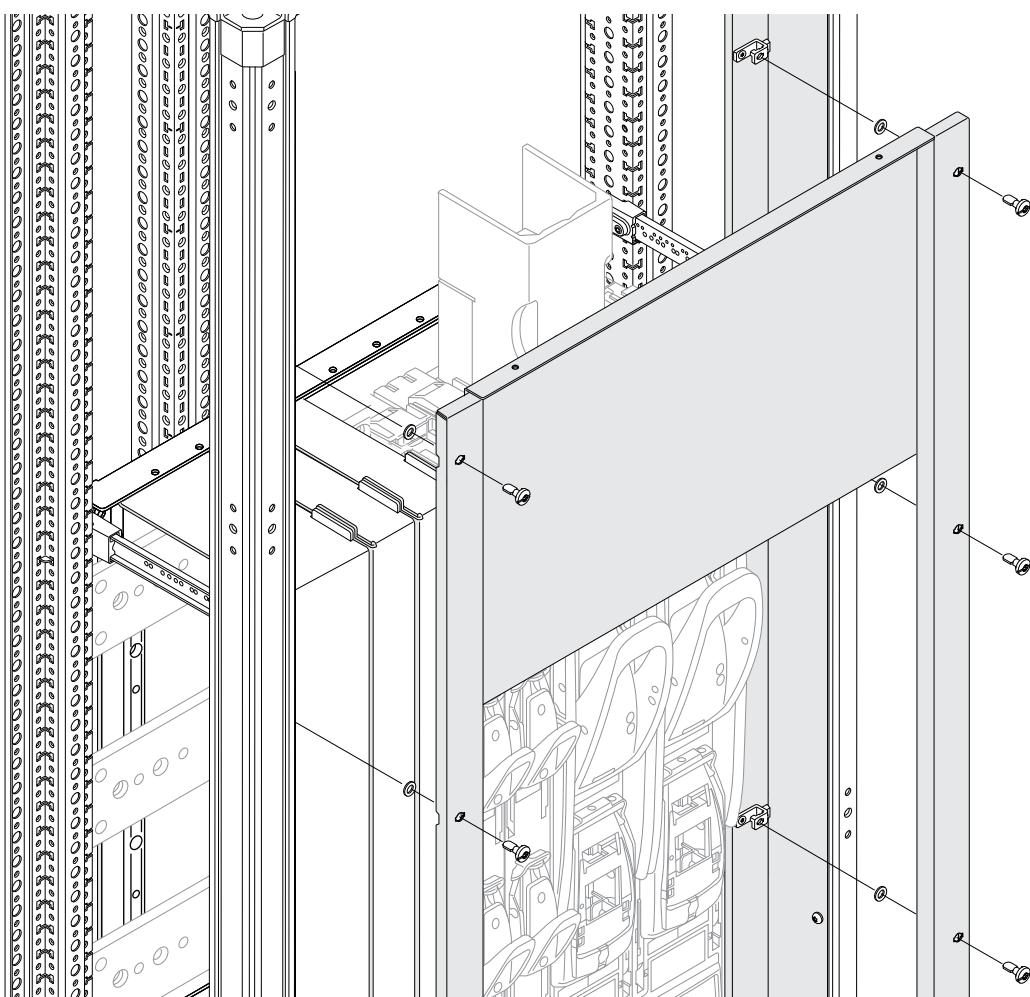


8x M6x10 Torx 30

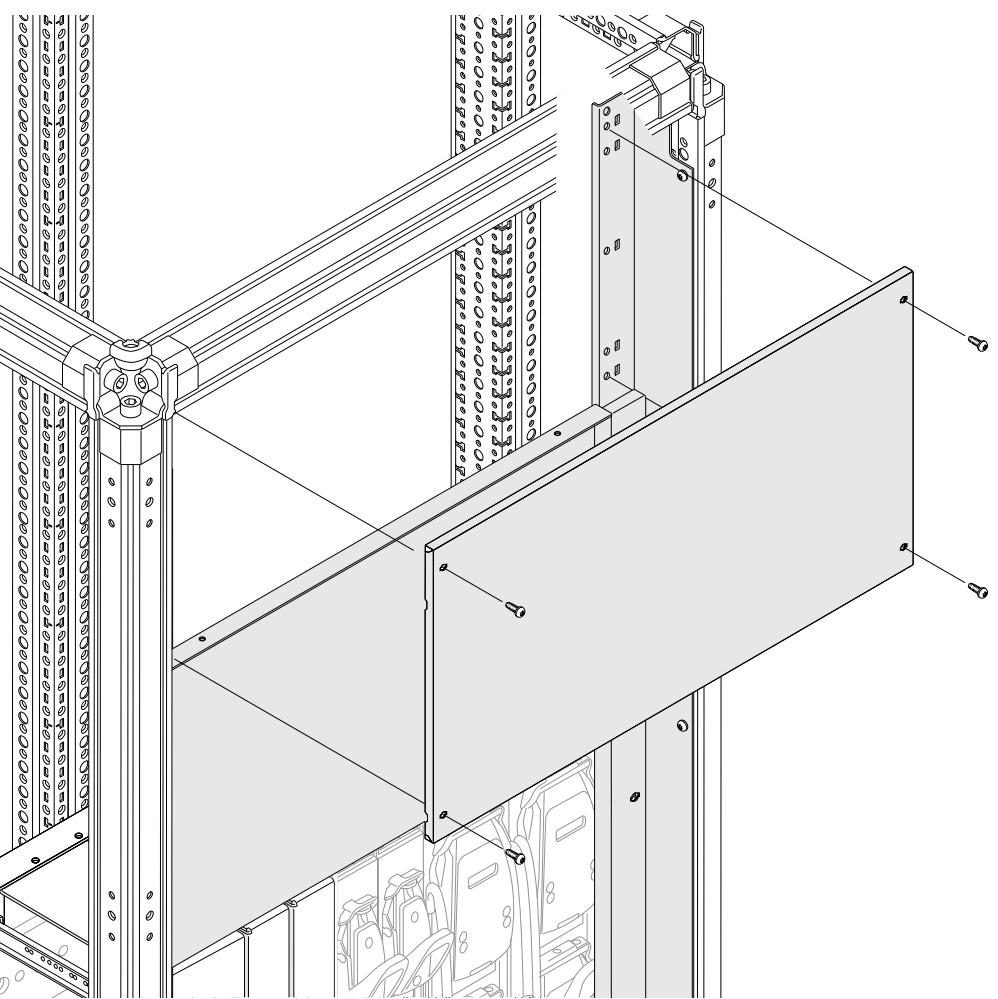


**5****6**

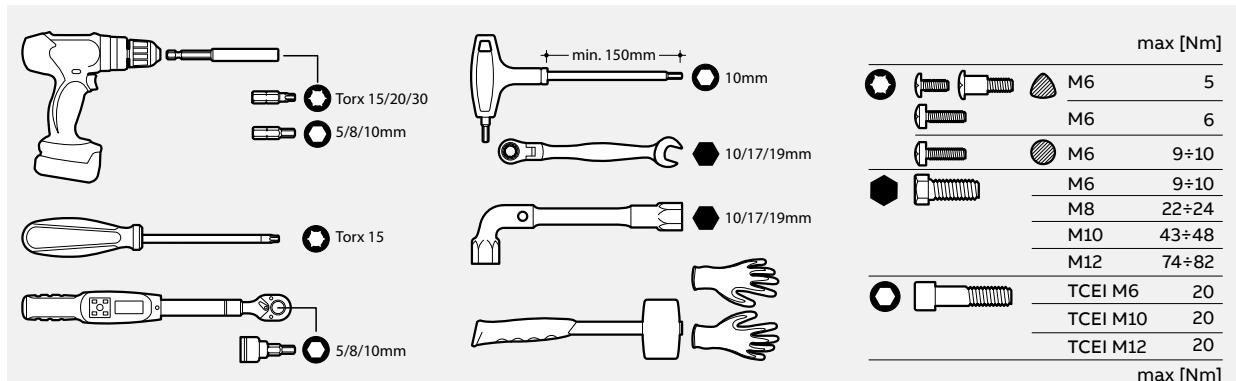
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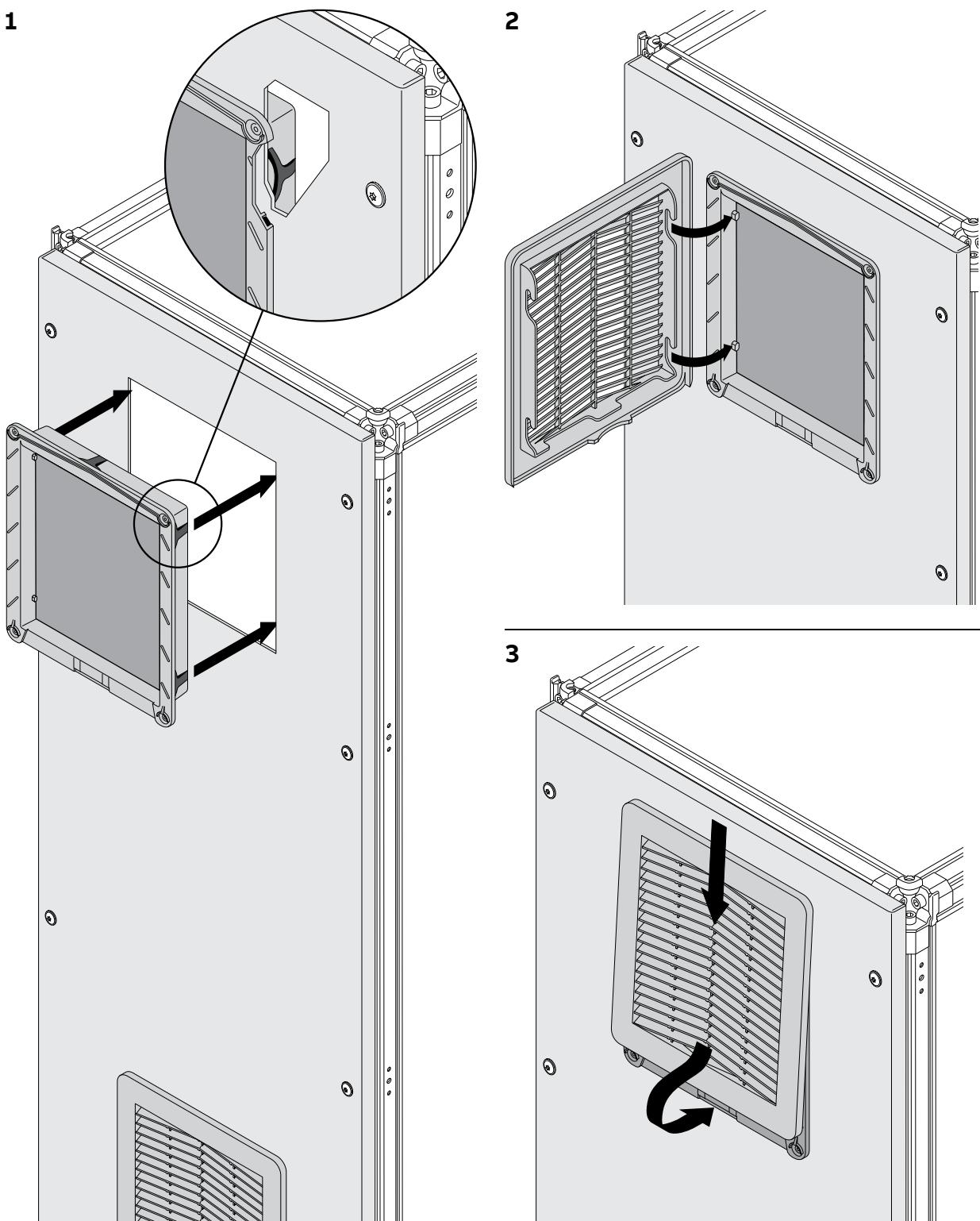
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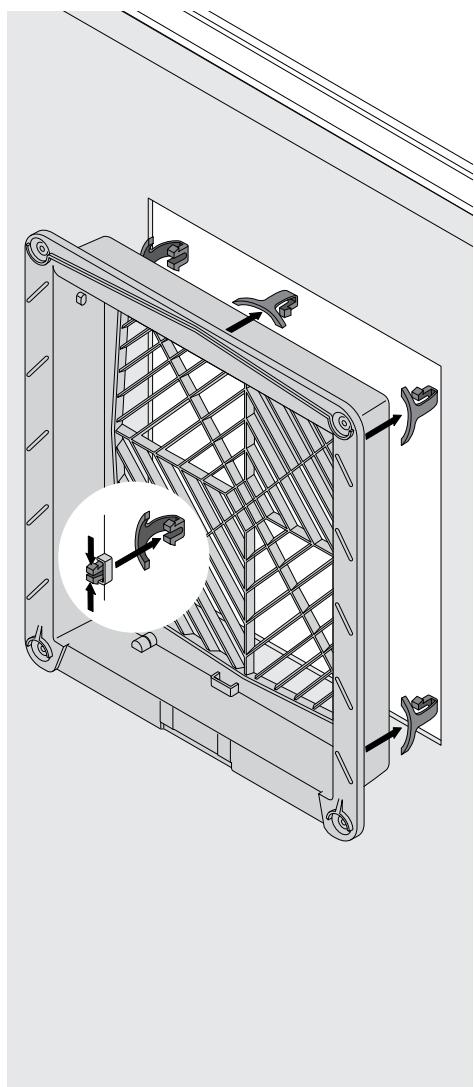
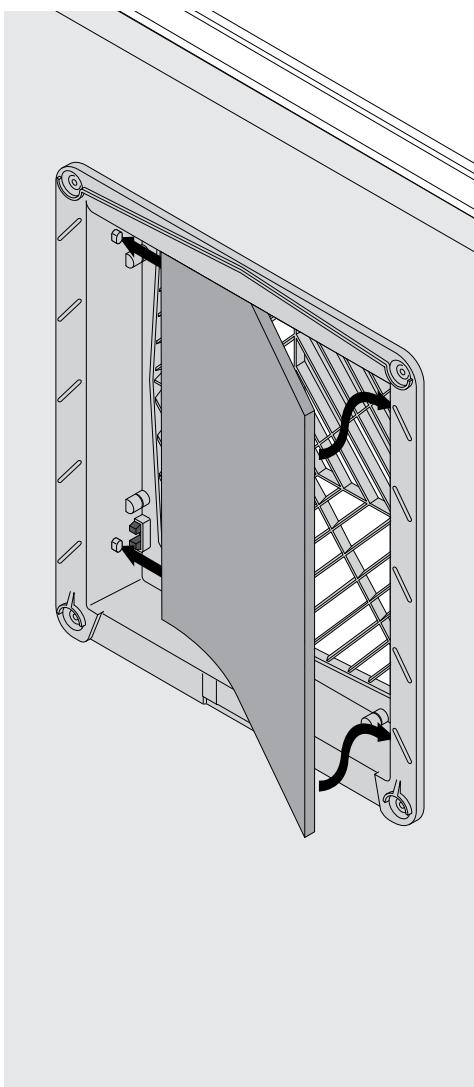
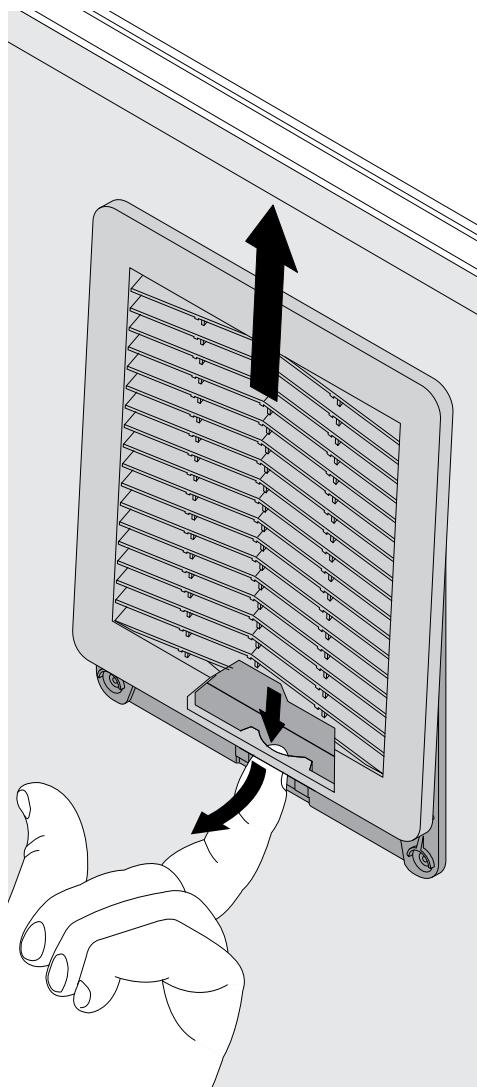


## IP43/54 ventilazion grid



PPAA....



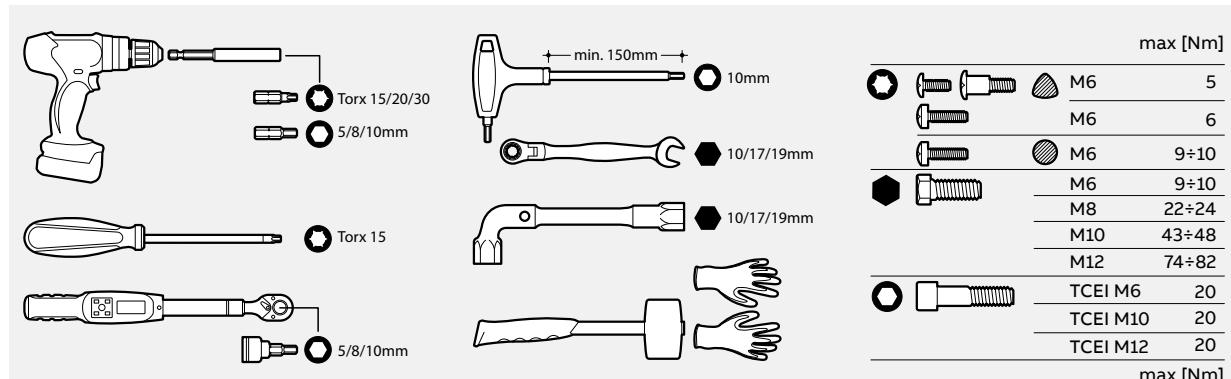


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## Busbars

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Busbars for earth and neutral.....	56
Plates for horizontal busbar connection .....	57
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## Linear busbars system



PBHB1125 24x  
PBHB2145 24x  
PBHB3121 24x

PCRM....  
PCRS....  
2x

PBBU0008 8x  
2x  
32x M6x10 Torx 30

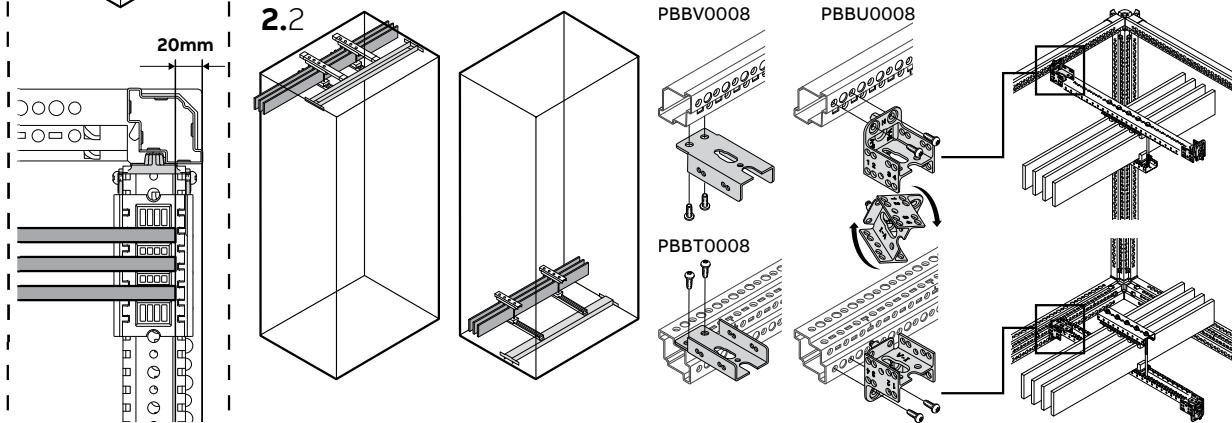
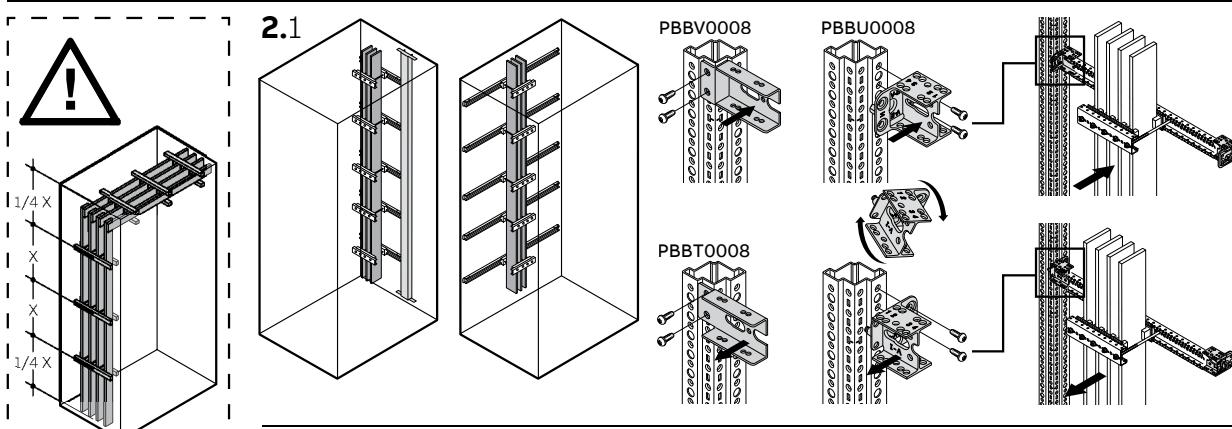
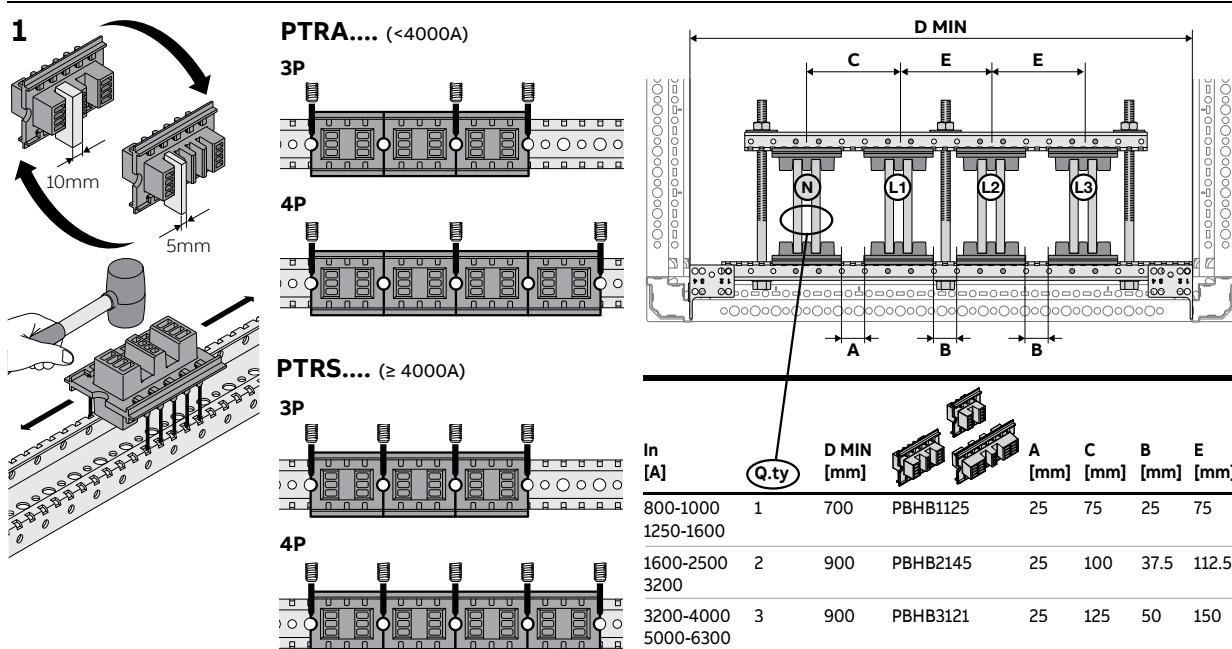
PBBT0008 PBBV0008 8x 8x  
2x  
32x M6x10 Torx 30

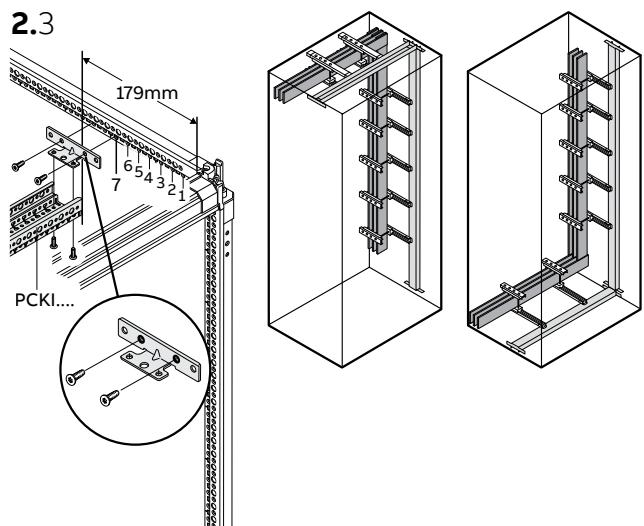
PBFC....  
PBFA....  
PBSC....  
2x

PTRA0045-PTRA0075  
PTRA0100-PTRA0120  
6x

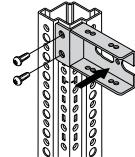
PTRS1201-PTRS1601  
PTRS2001  
10x

PLLS....  
2x  
4x M6x10 Torx 30

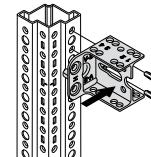


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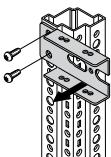
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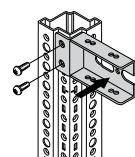
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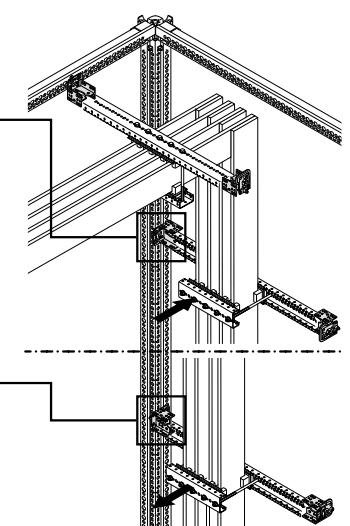
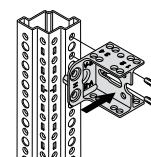
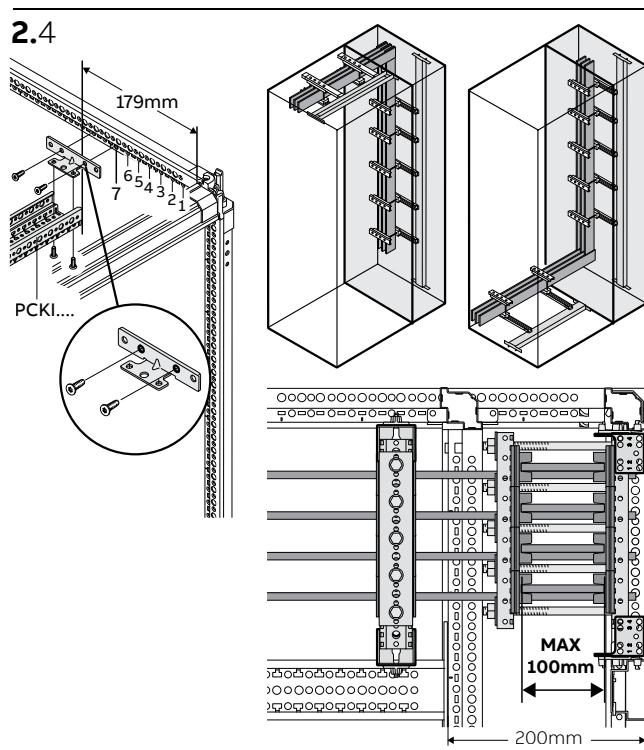
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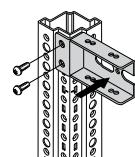
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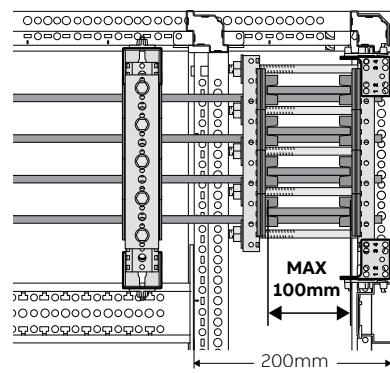
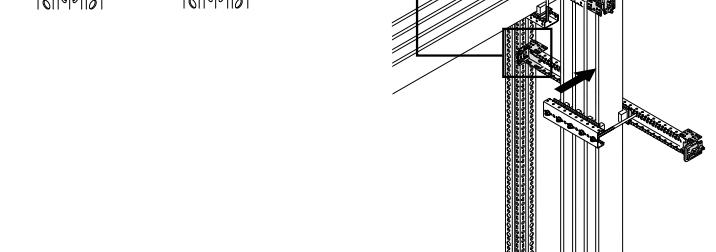
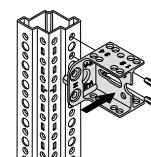
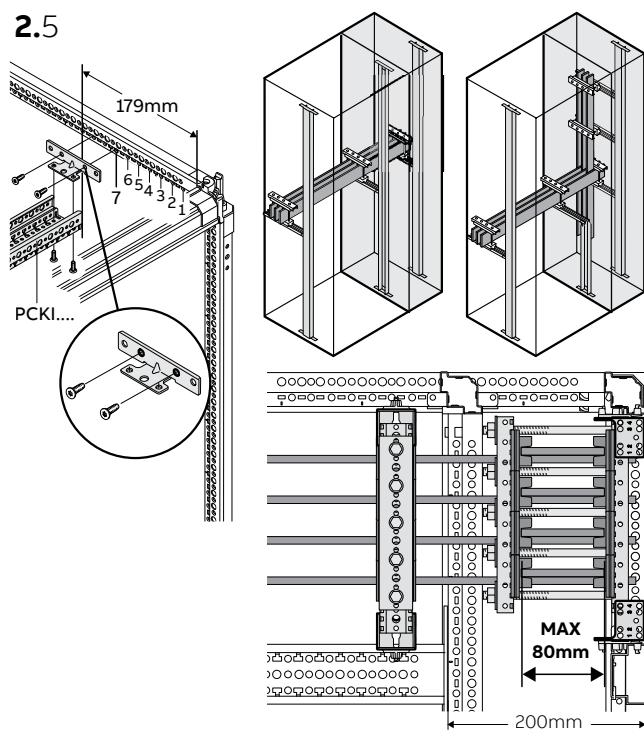
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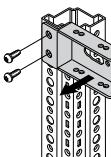
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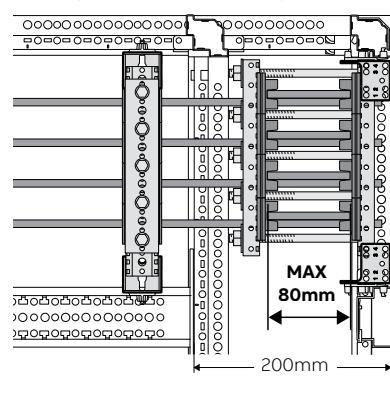
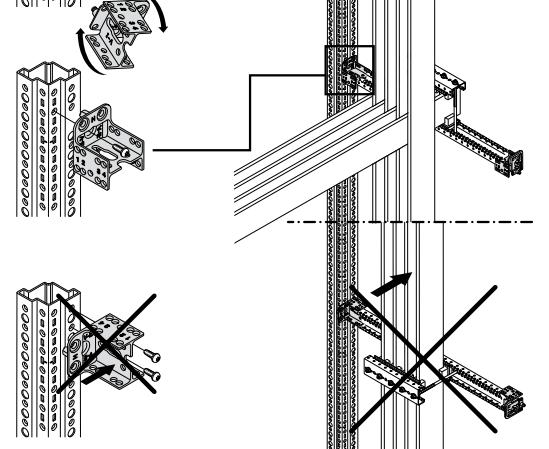
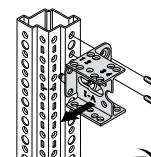
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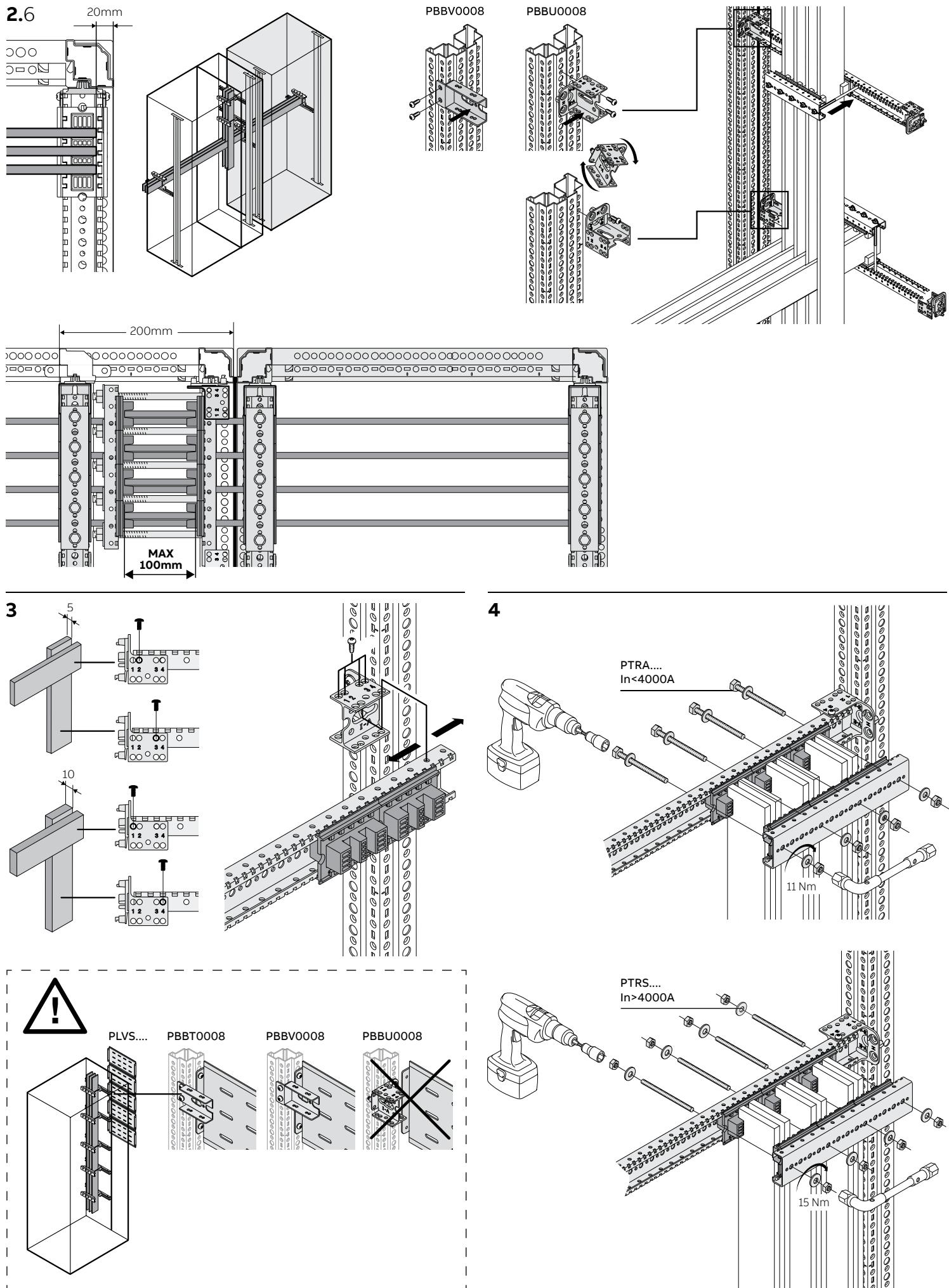
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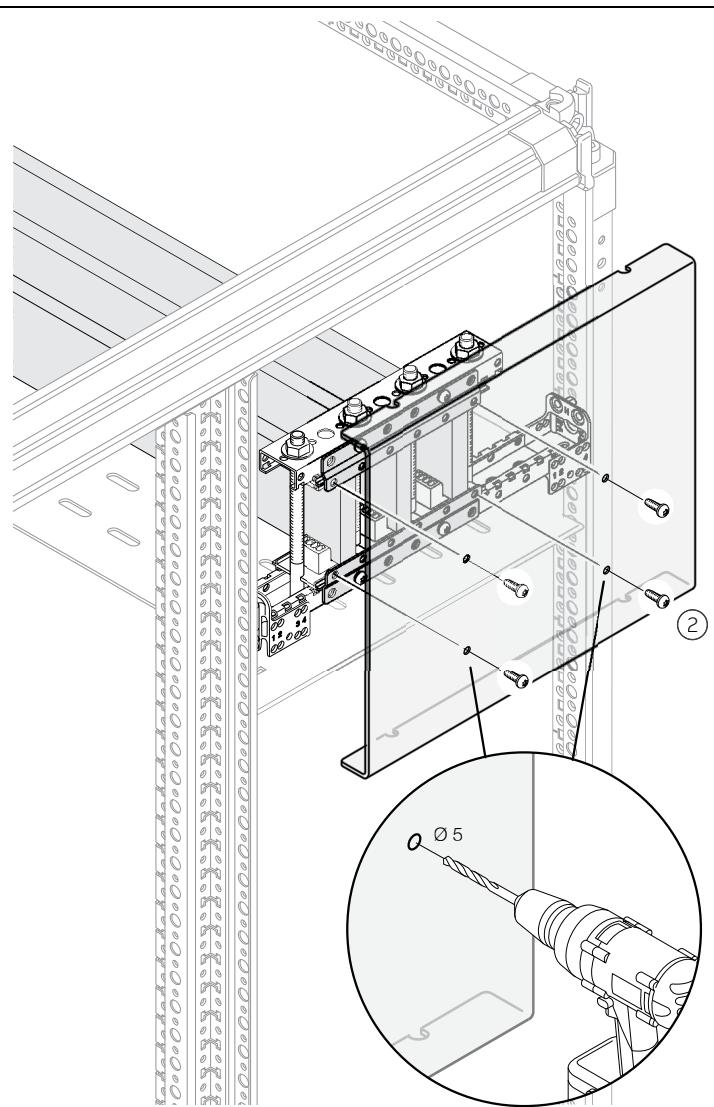
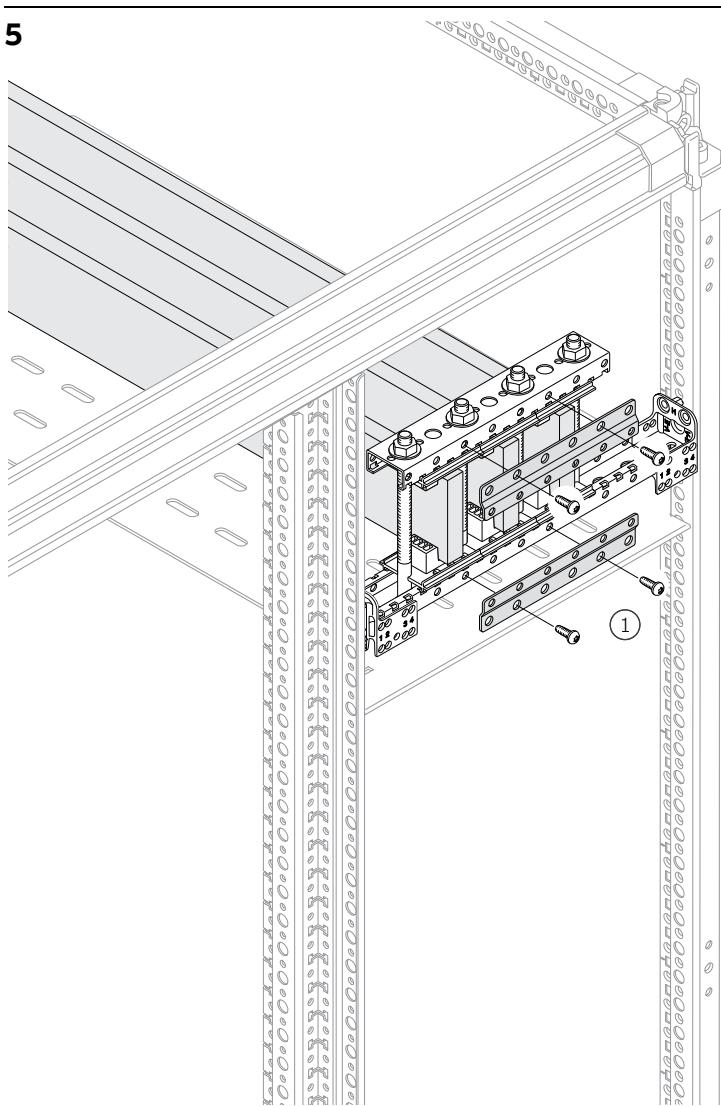
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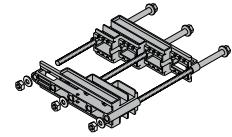
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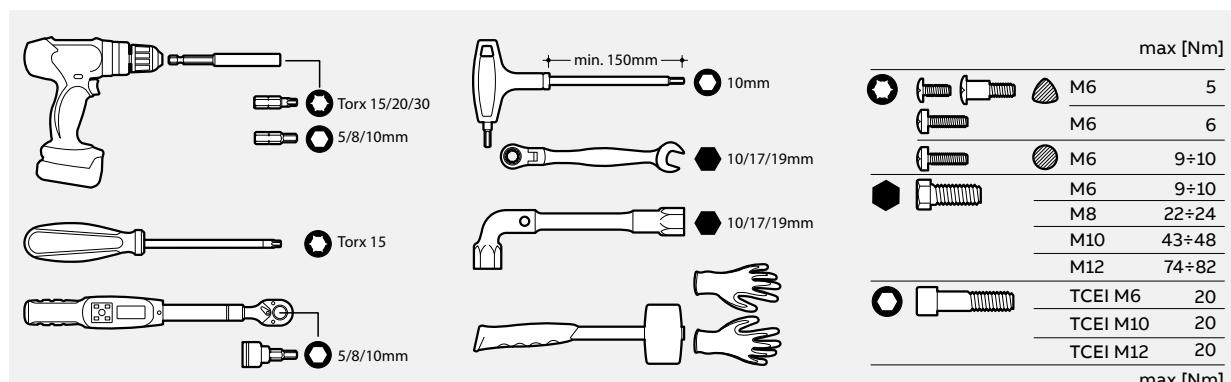


**5**

## Scalar busbar system



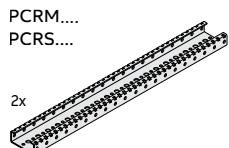
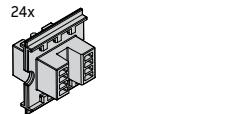
PBHS1125 1x  
PBHB1125 24x



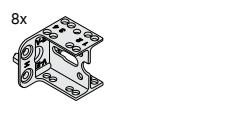
	max [Nm]
M6	5
M6	6
M6	9÷10
M6	9÷10
M8	22÷24
M10	43÷48
M12	74÷82
TCEI M6	20
TCEI M10	20
TCEI M12	20

max [Nm]

PBHB1125

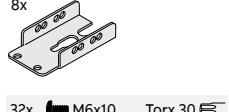


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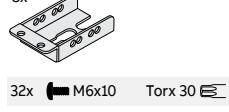
32x M6x10 Torx 30

PBBT0008

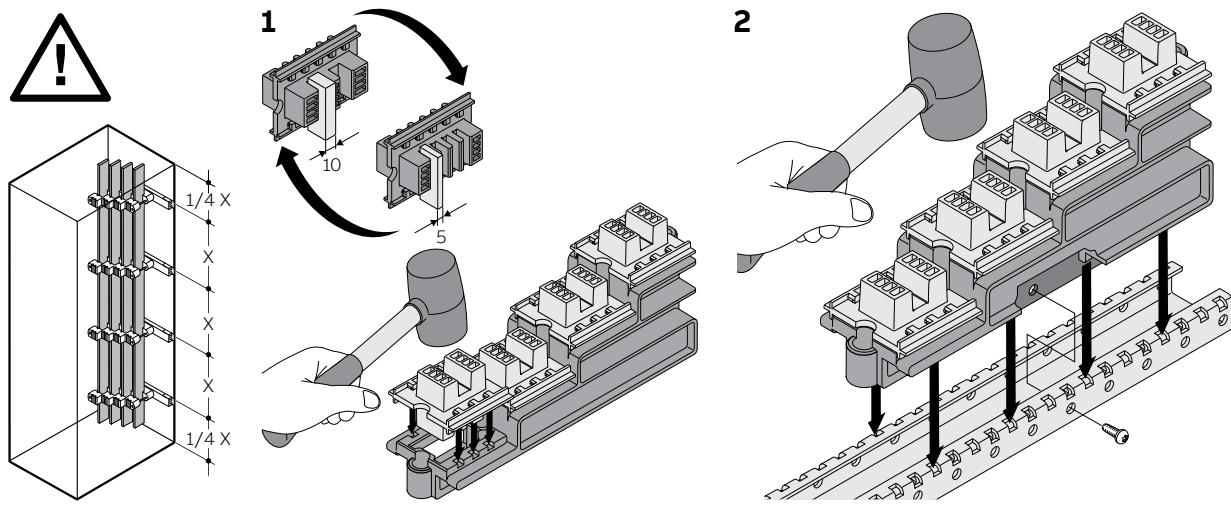
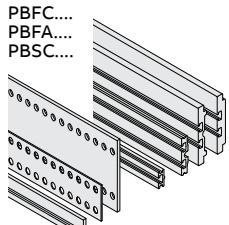


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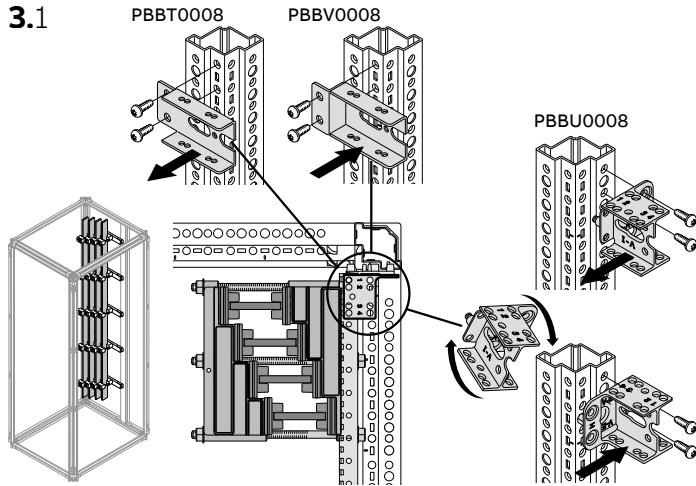
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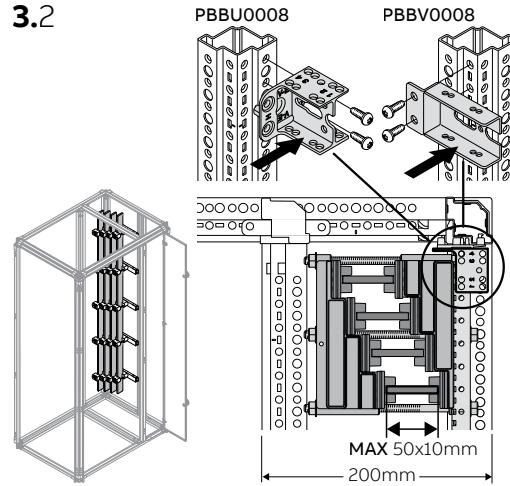
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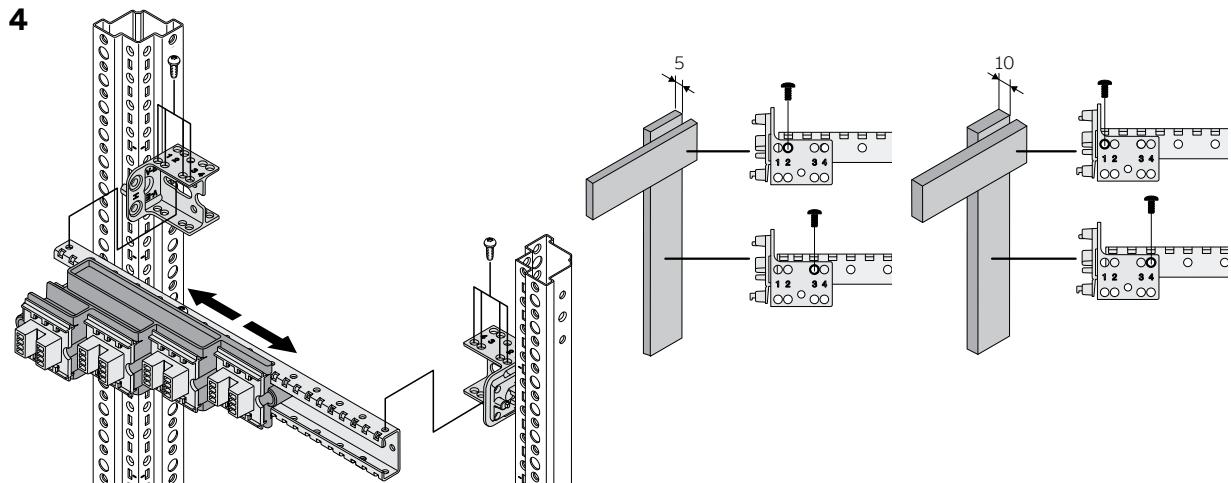
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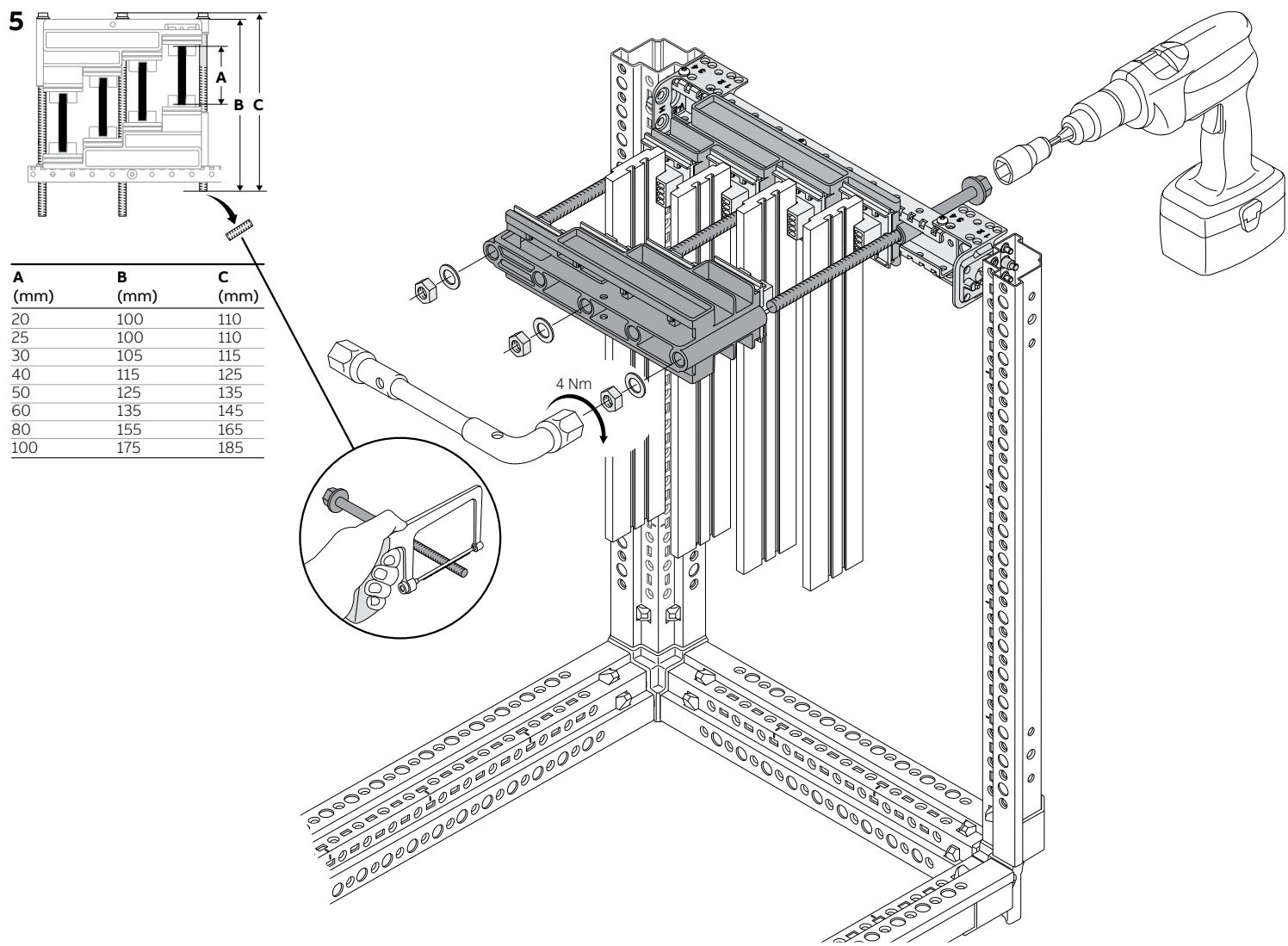


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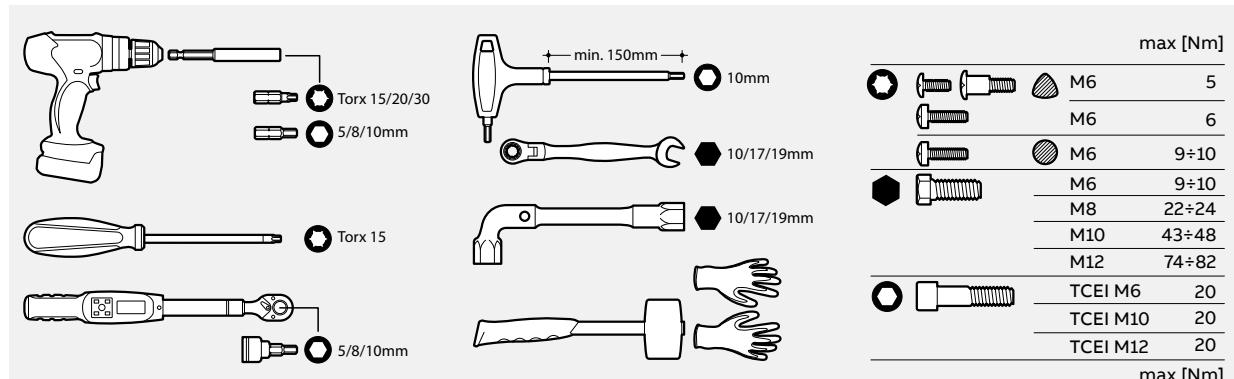


4

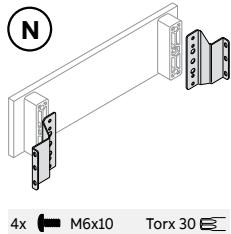


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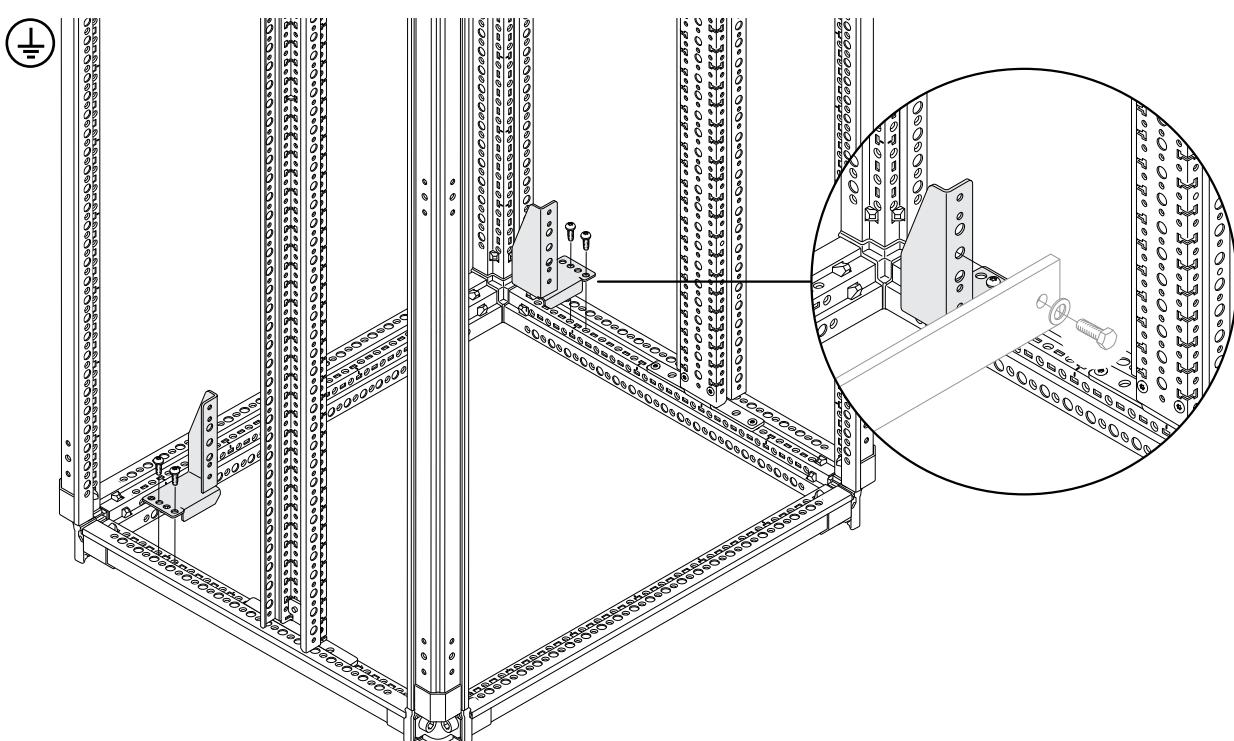
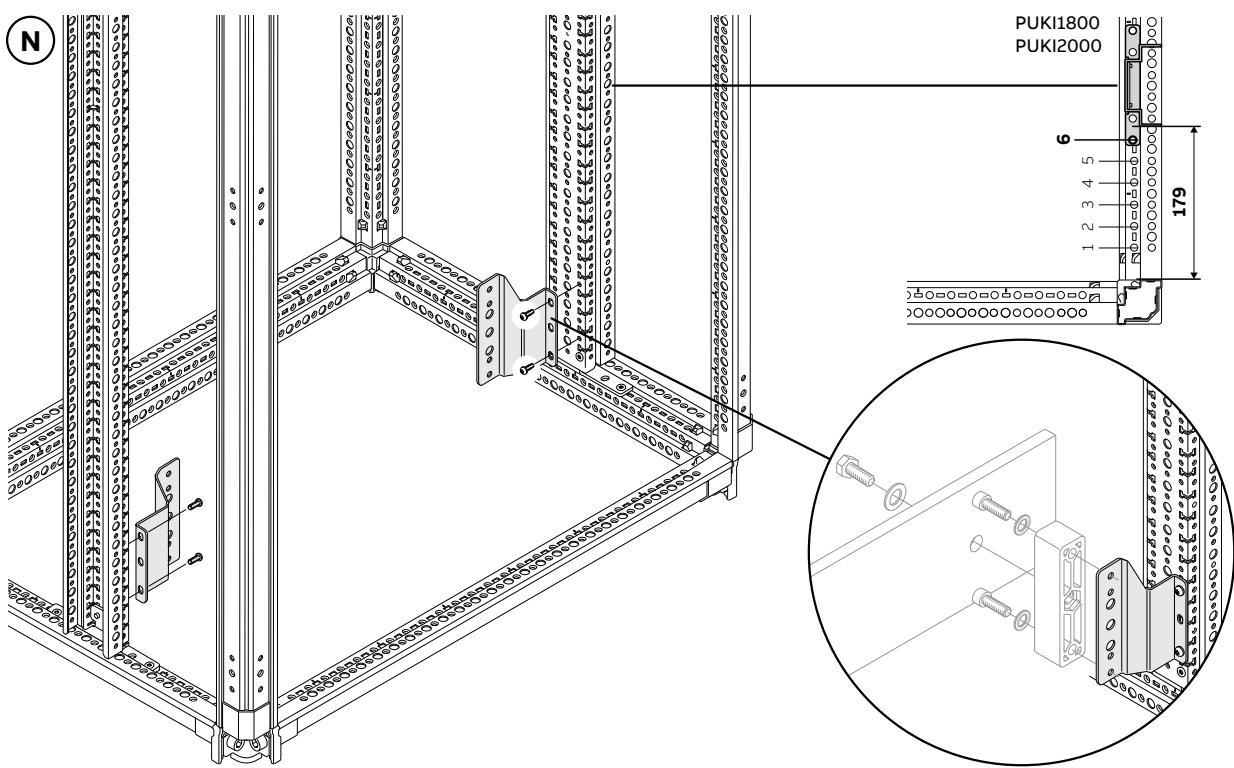
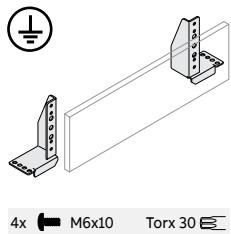
## Busbars for earth and neutral



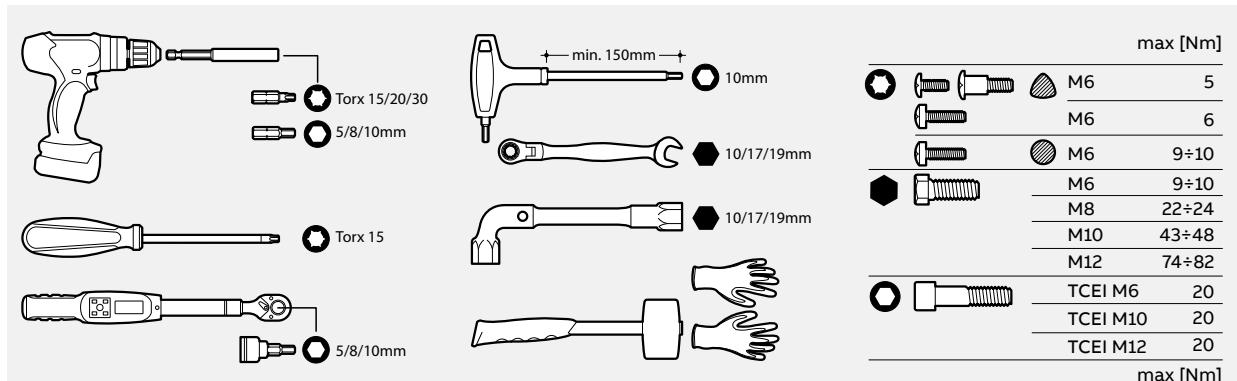
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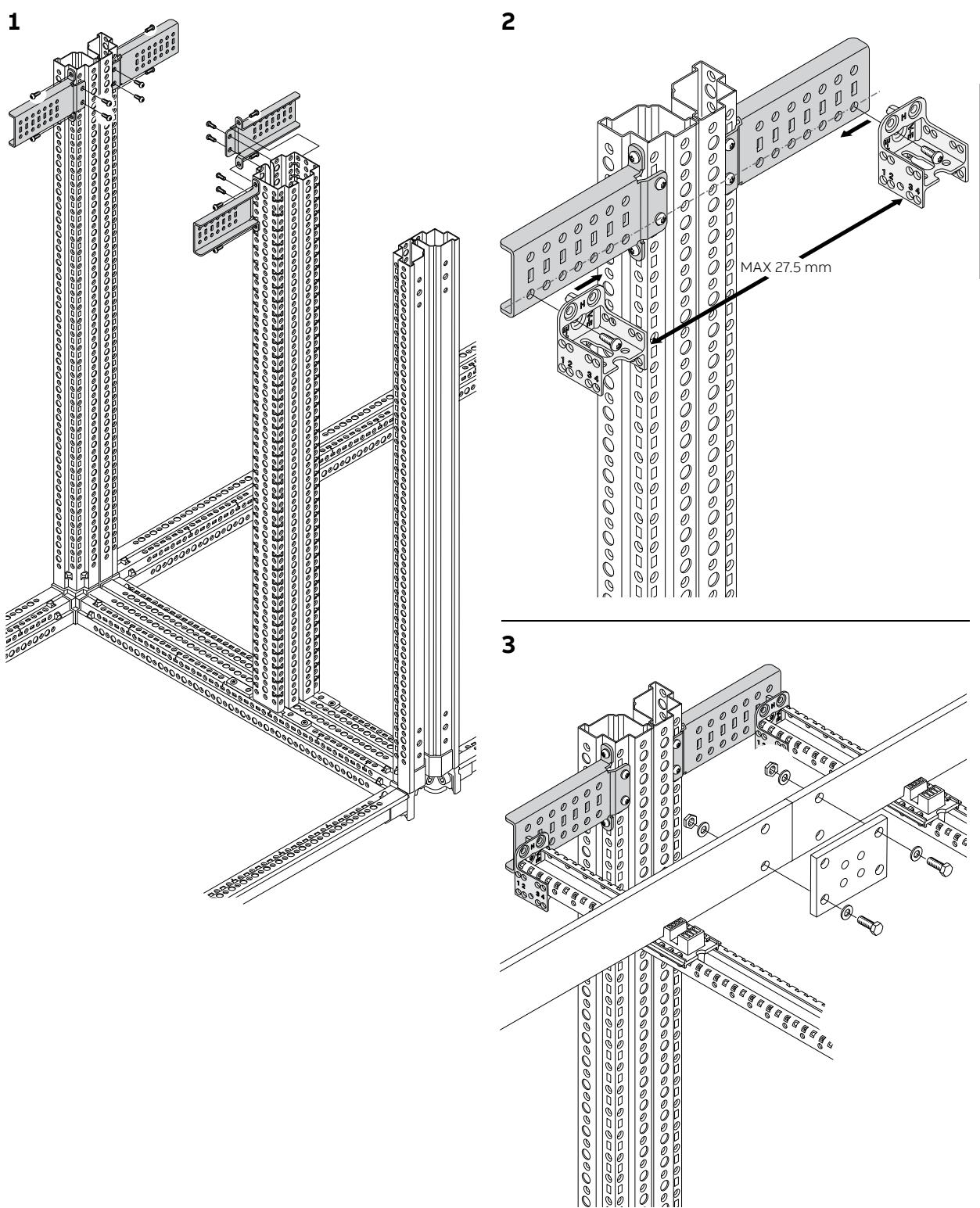
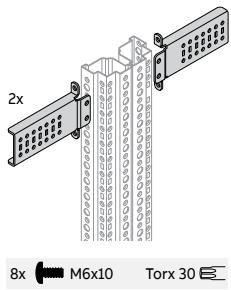
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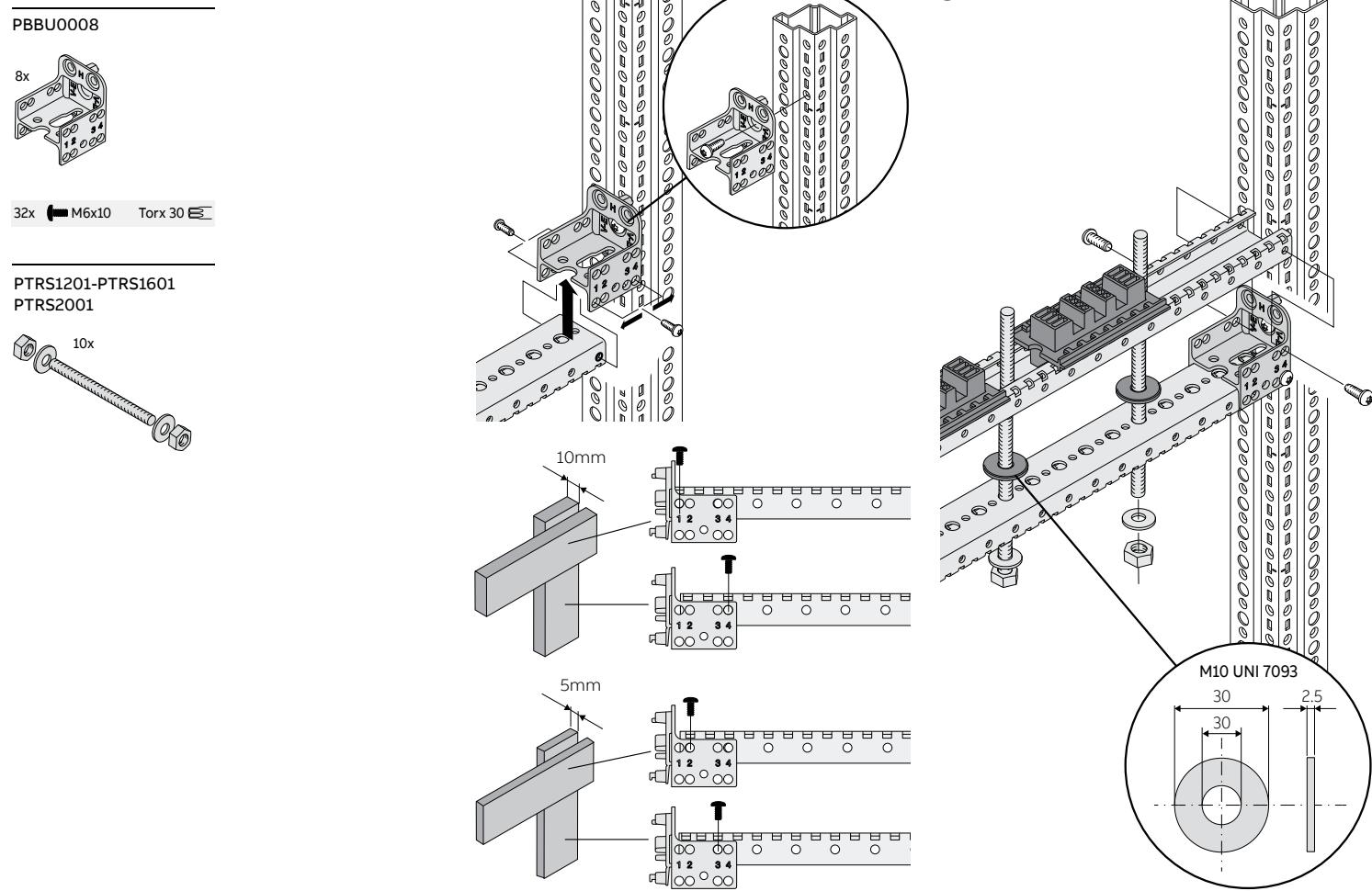
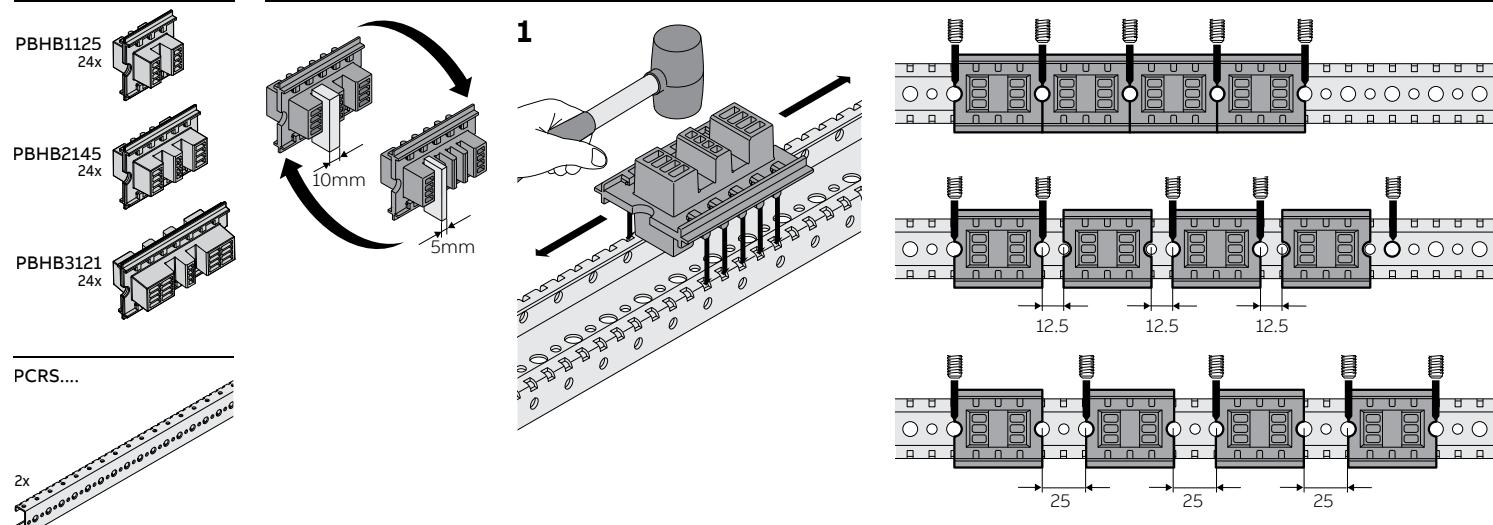
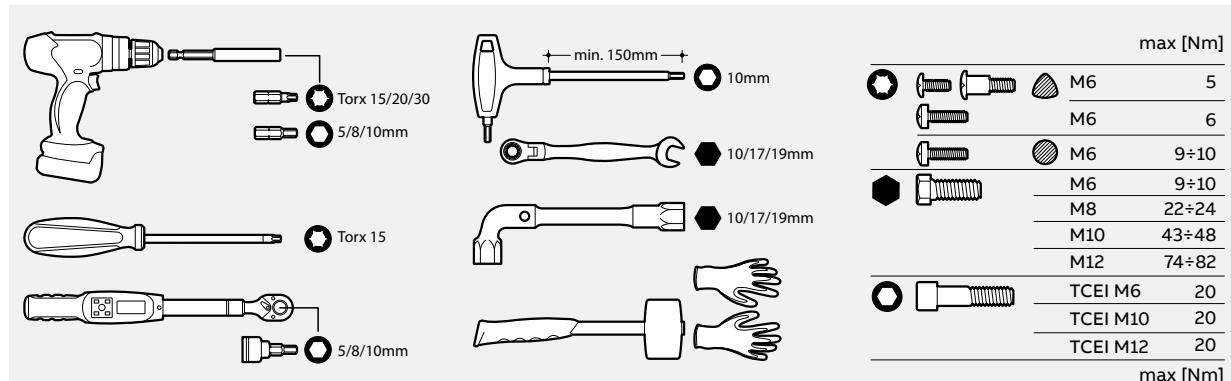
## Plates for horizontal busbar connection

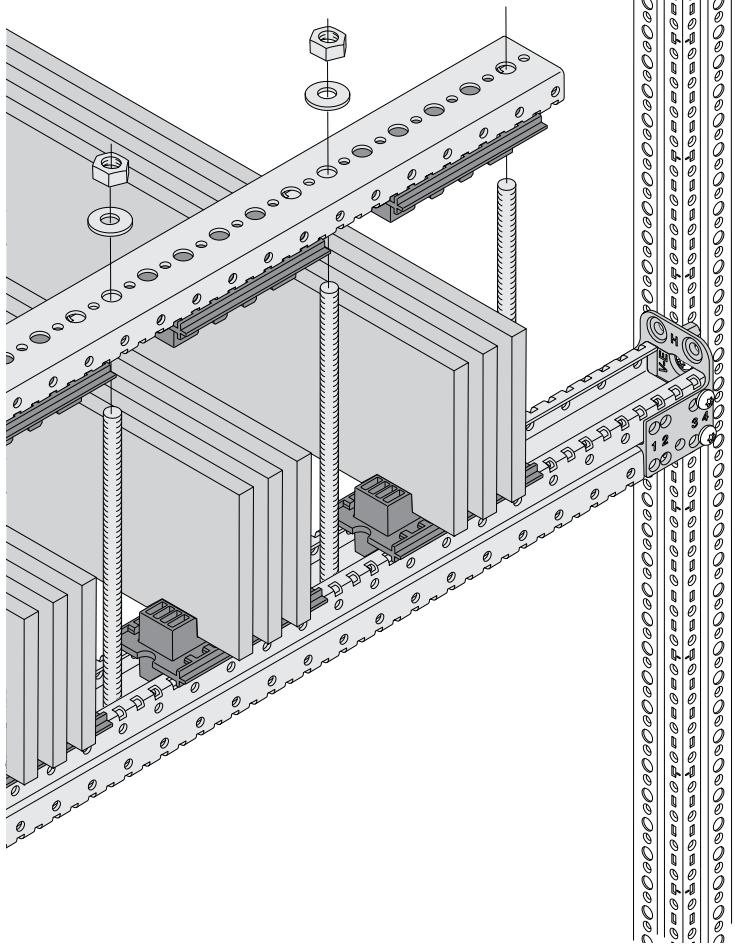
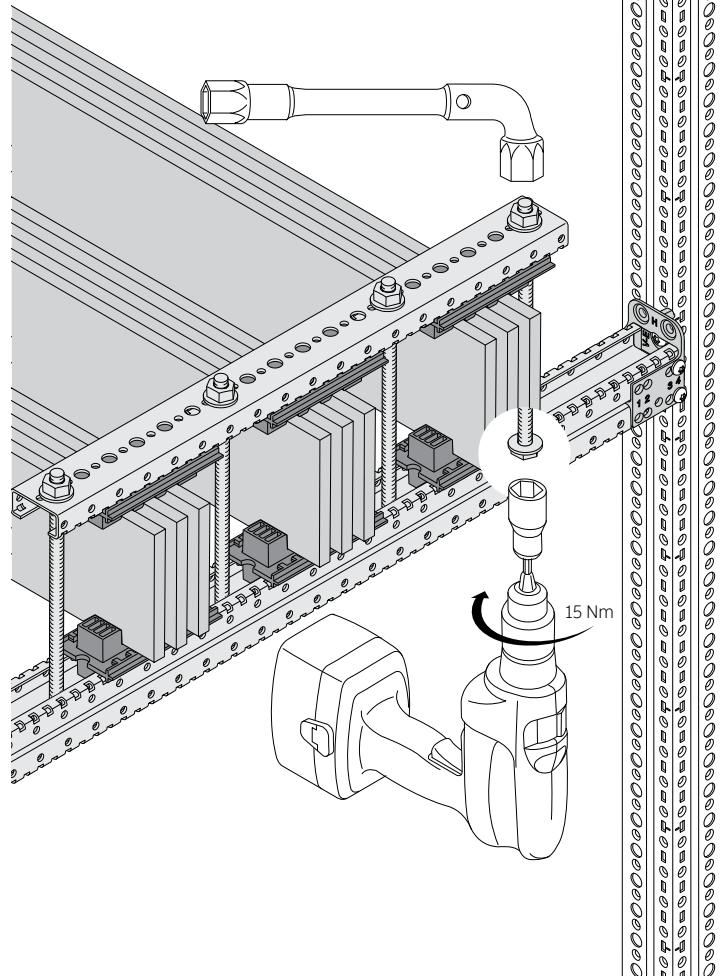


PBMCO003



## Double crosspieces for busbars



**4****5**

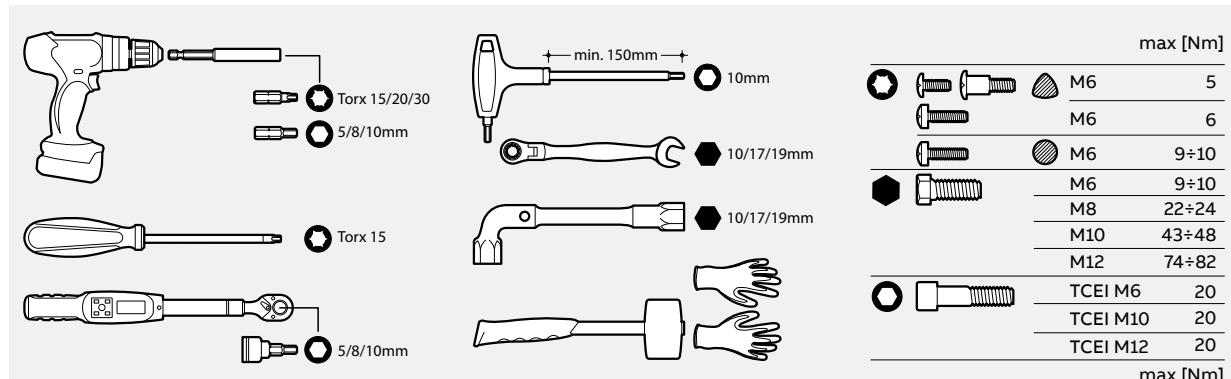


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## Circuit-breakers kit

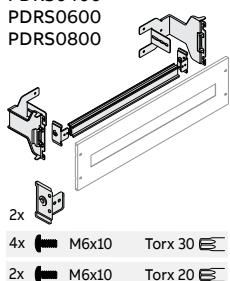
System Pro-M modular circuit-breakers .....	62
Supports for wiring ducts .....	65
Extension kit for D=300mm structures .....	66
Tmax XT - Tmax T H = 150mm .....	67
Tmax XT- Tmax T - Emax E1.2 - OT - Blind mounting plates.....	69
Emax E2.2 - Emax E4.2 - vertical .....	75
Emax E6.2 - vertical .....	77
Brackets for fastening connections towards busbars or to terminate cables for horizontal moulded-case circuit-breakers .....	81
Fixing brackets connection module .....	83
Mounting plate.....	85
Fixed frame for panels .....	87
Special fixed frame for panels .....	88
Revolving frame for paneling.....	90
Flat and recessed blind panels, Panels for measuring.....	92
Space-saving column.....	94

## System Pro-M modular circuit-breakers

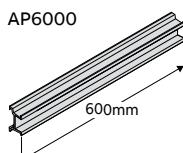


			max [Nm]
		M6	5
		M6	6
		M6	9÷10
		M6	9÷10
		M8	22÷24
		M10	43÷48
		M12	74÷82
		TCEI M6	20
		TCEI M10	20
		TCEI M12	20

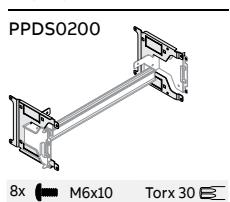
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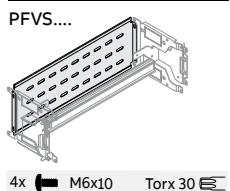
AP6000



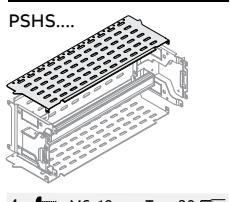
Segregation Form 2a-3a



PFVS....

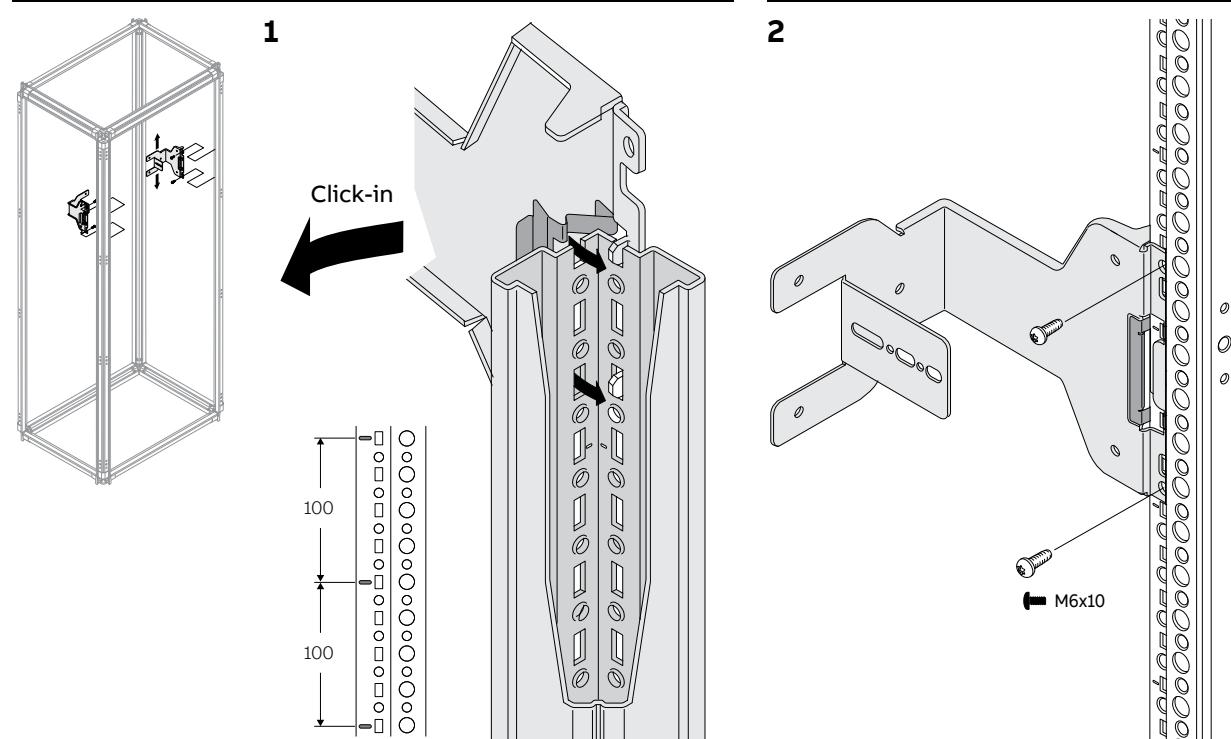
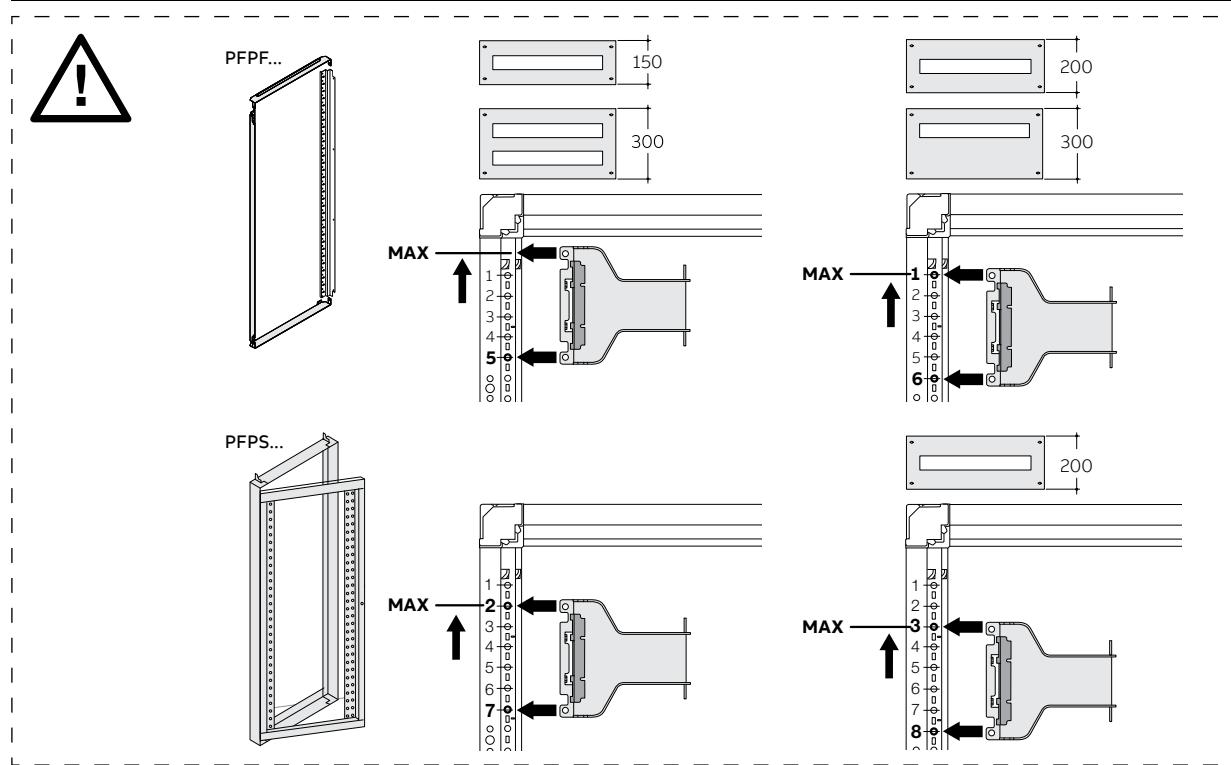
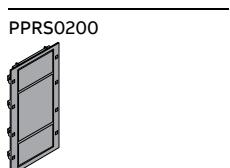


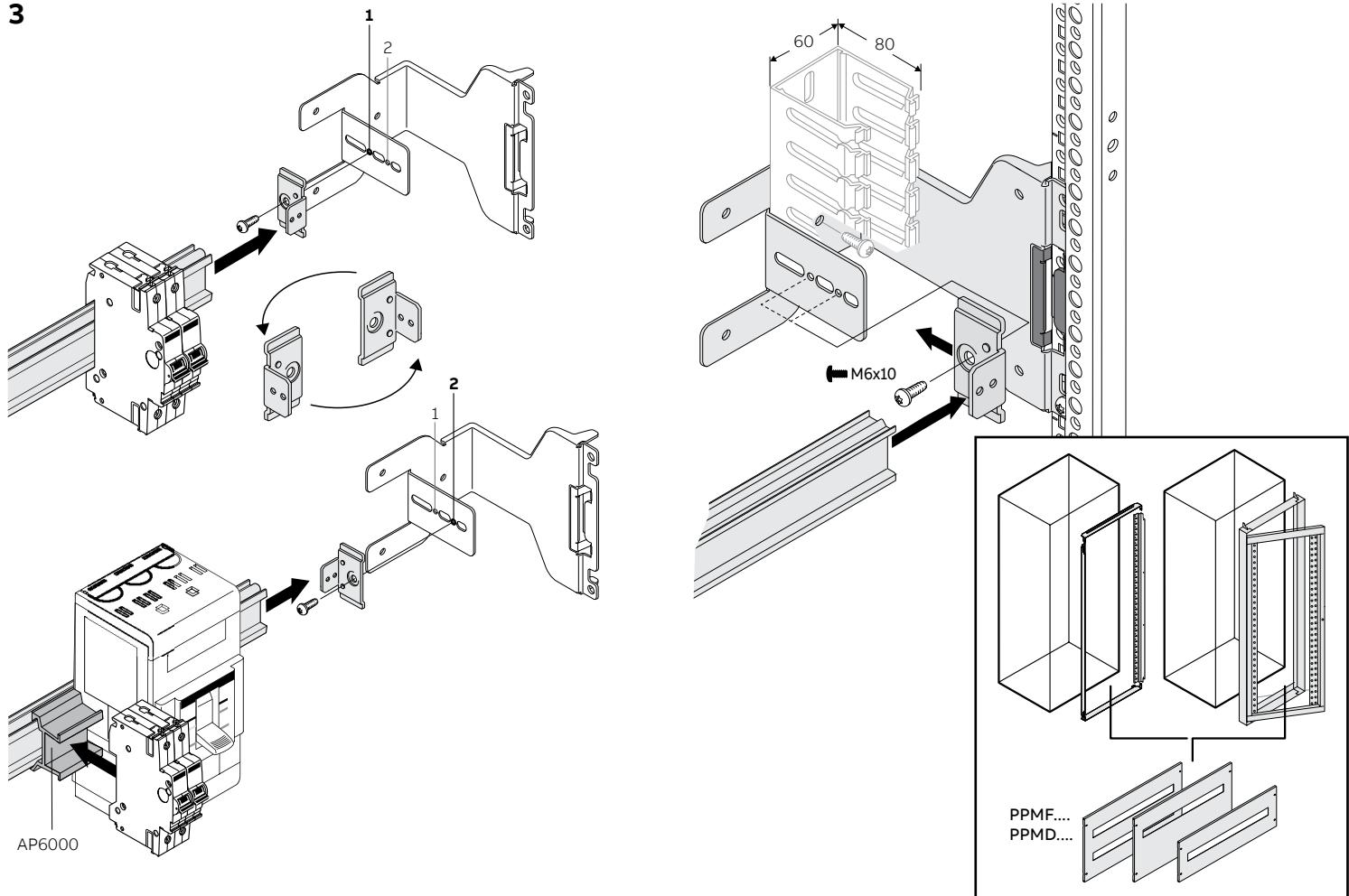
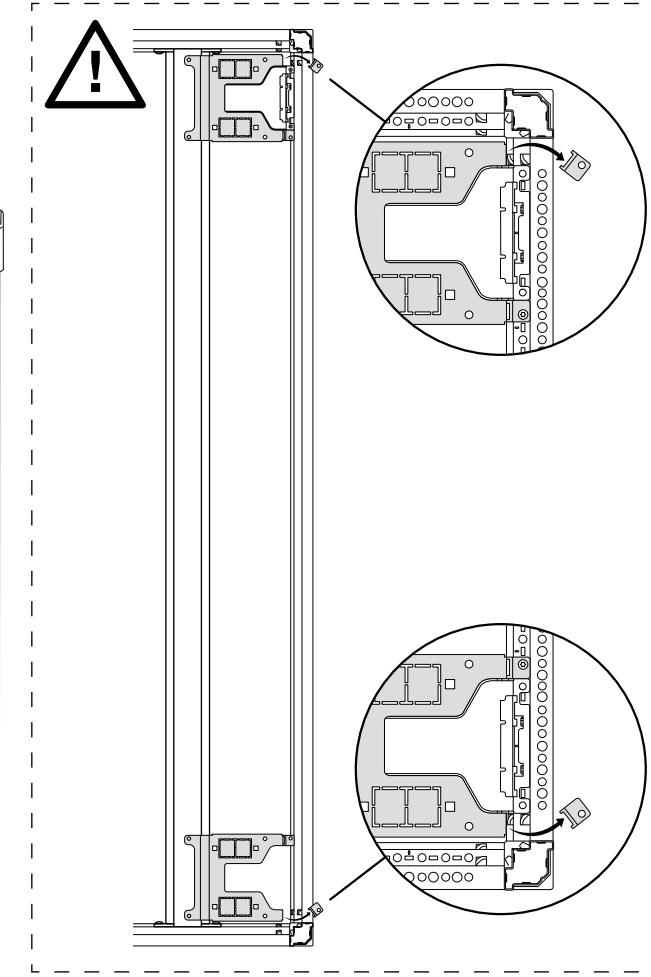
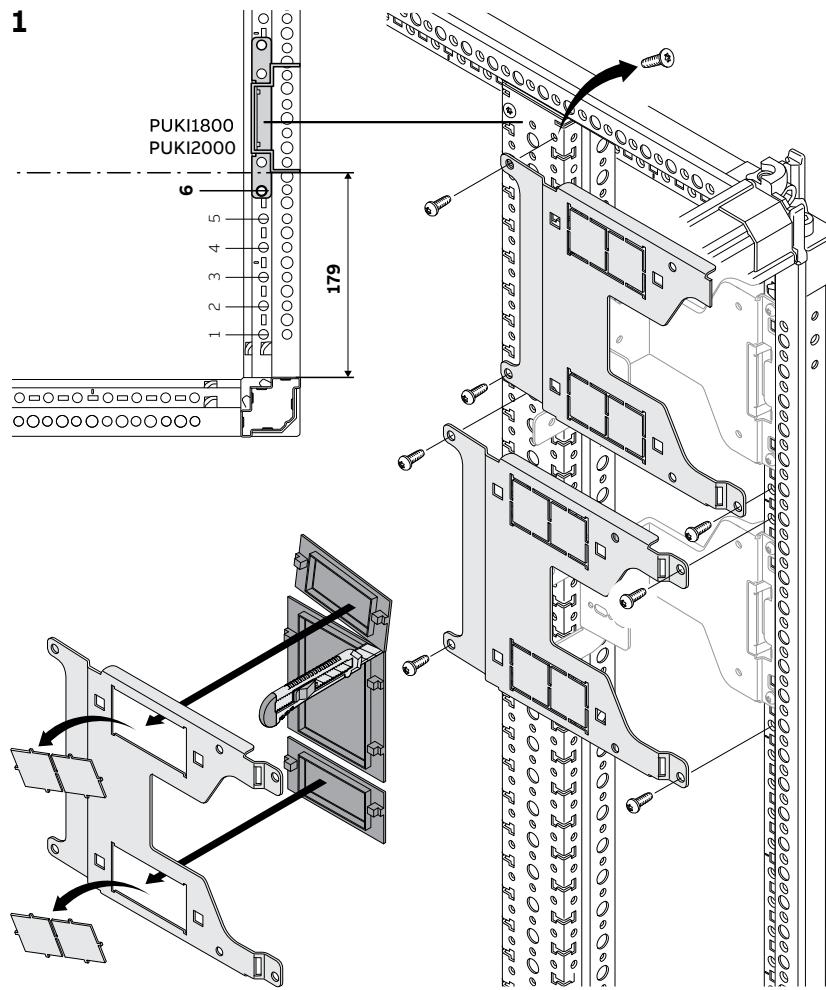
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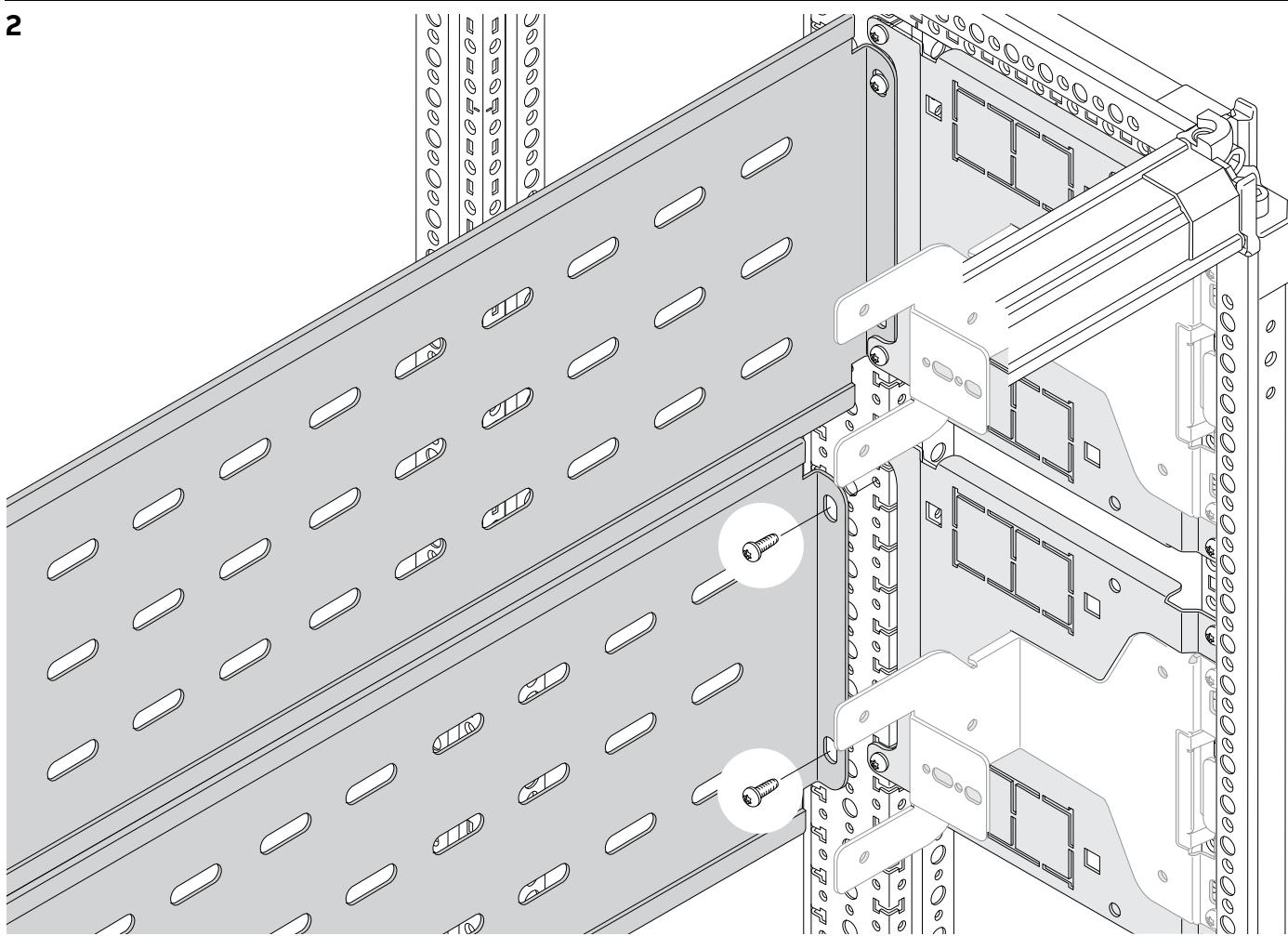


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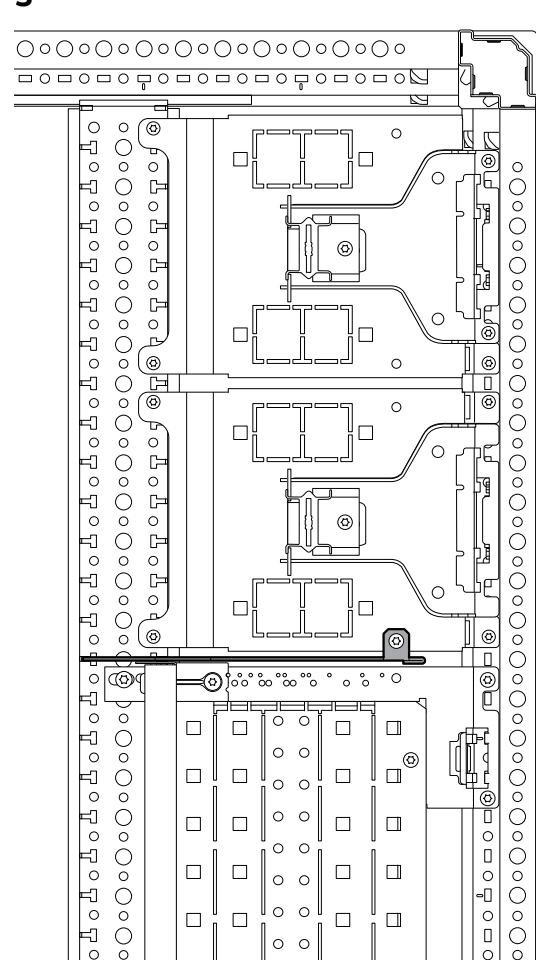
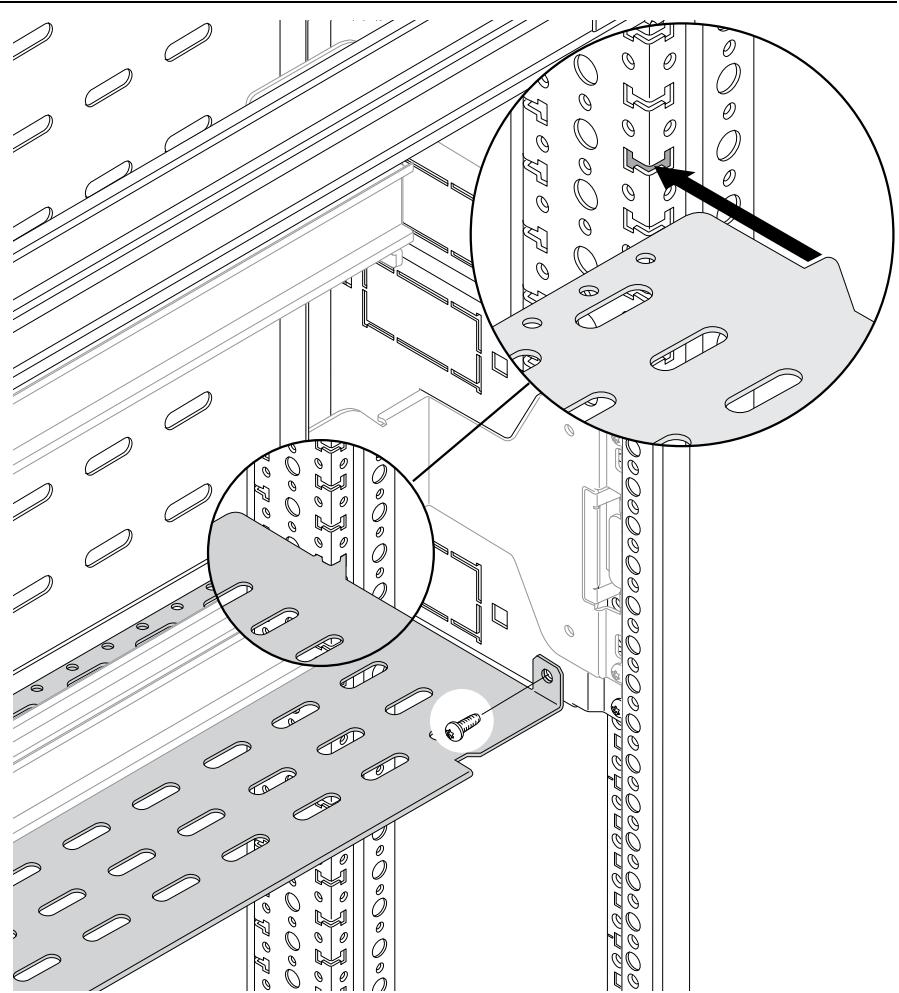
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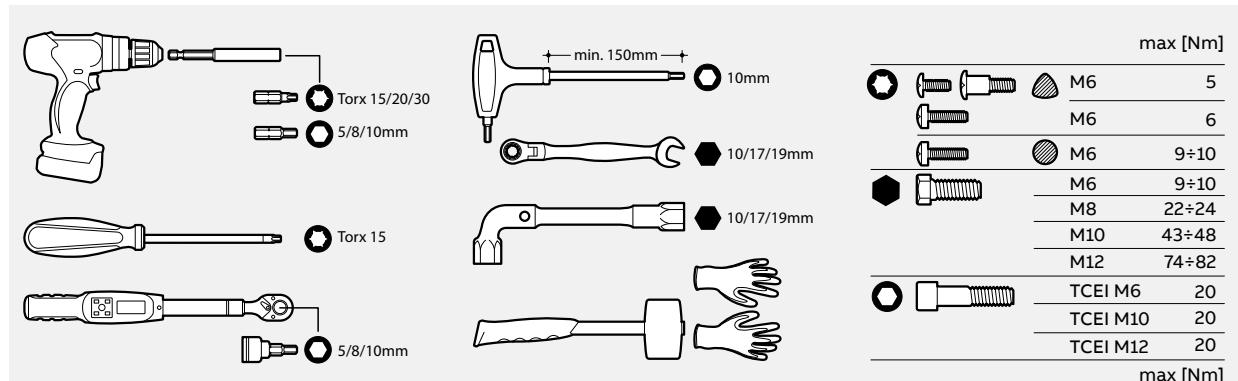
**3****Segregation Form 2a-3a****1**

**2**

3

**3**

## Supports for wiring ducts



AD1009

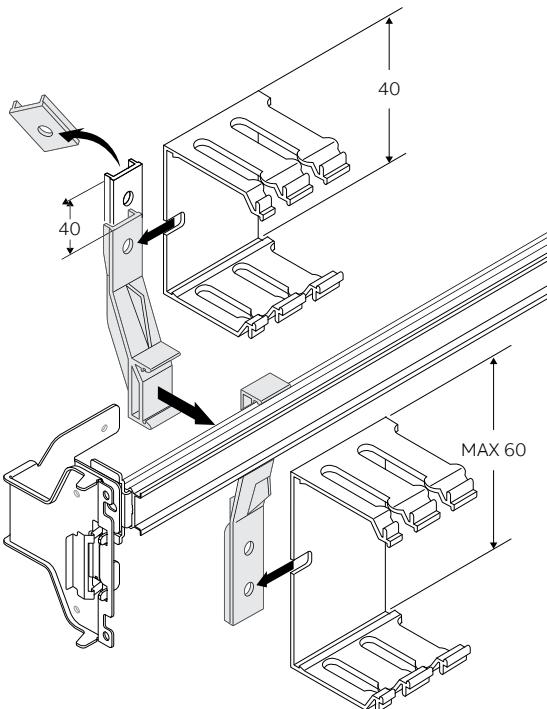


AD1037

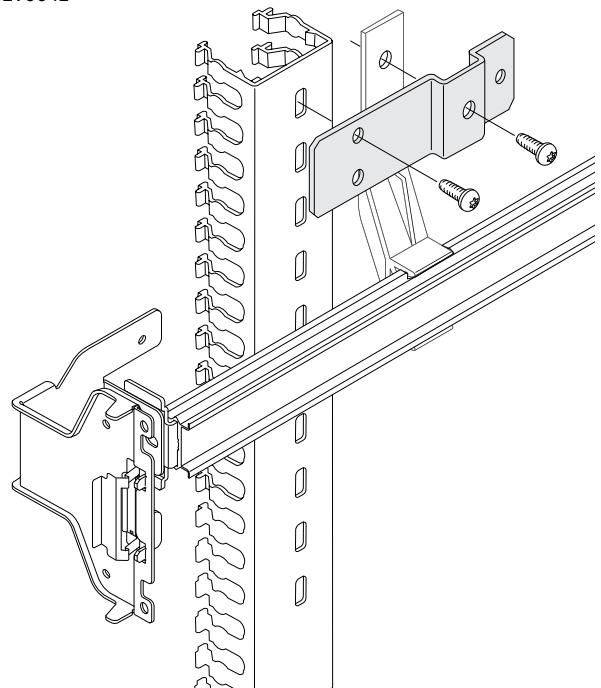


4x M6x10 Torx 30

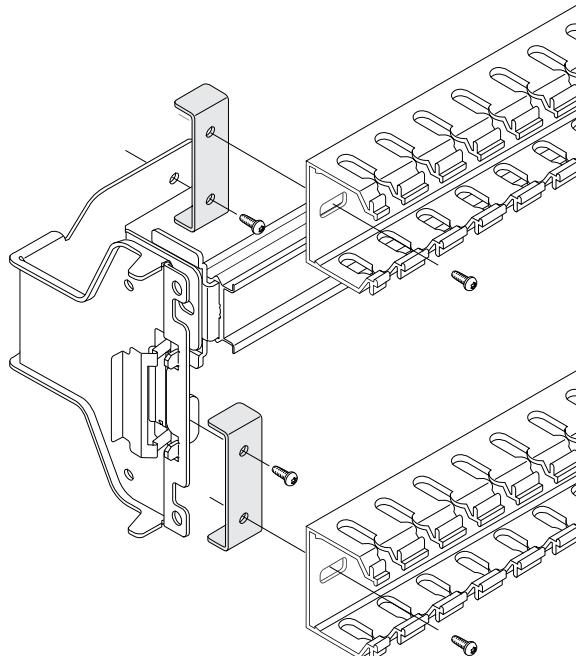
AD1009



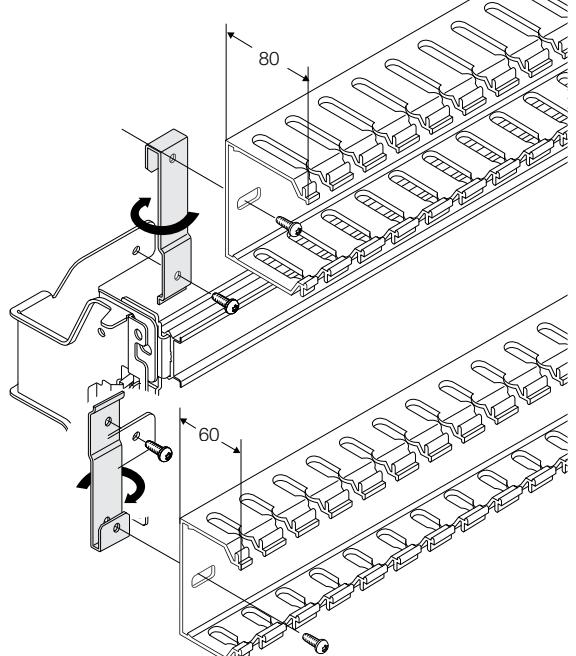
EV0042



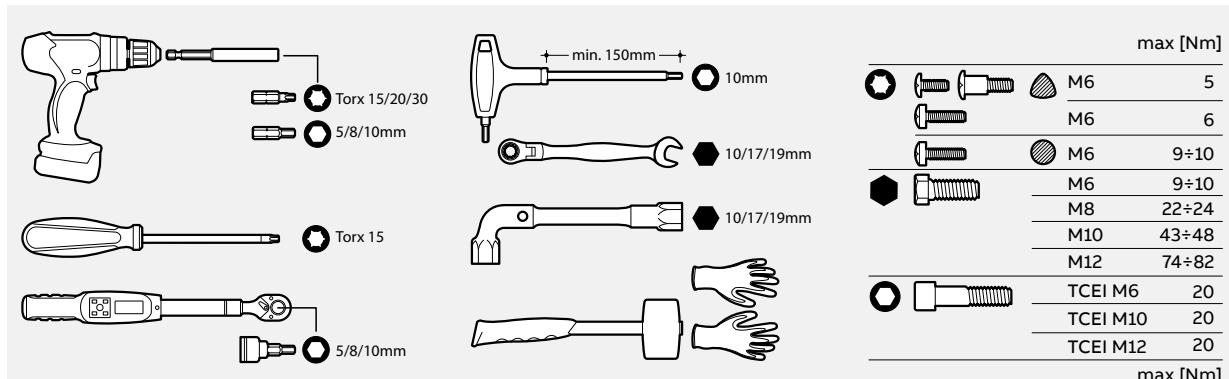
PSRM1515



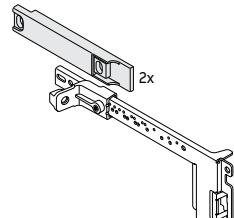
AD1037



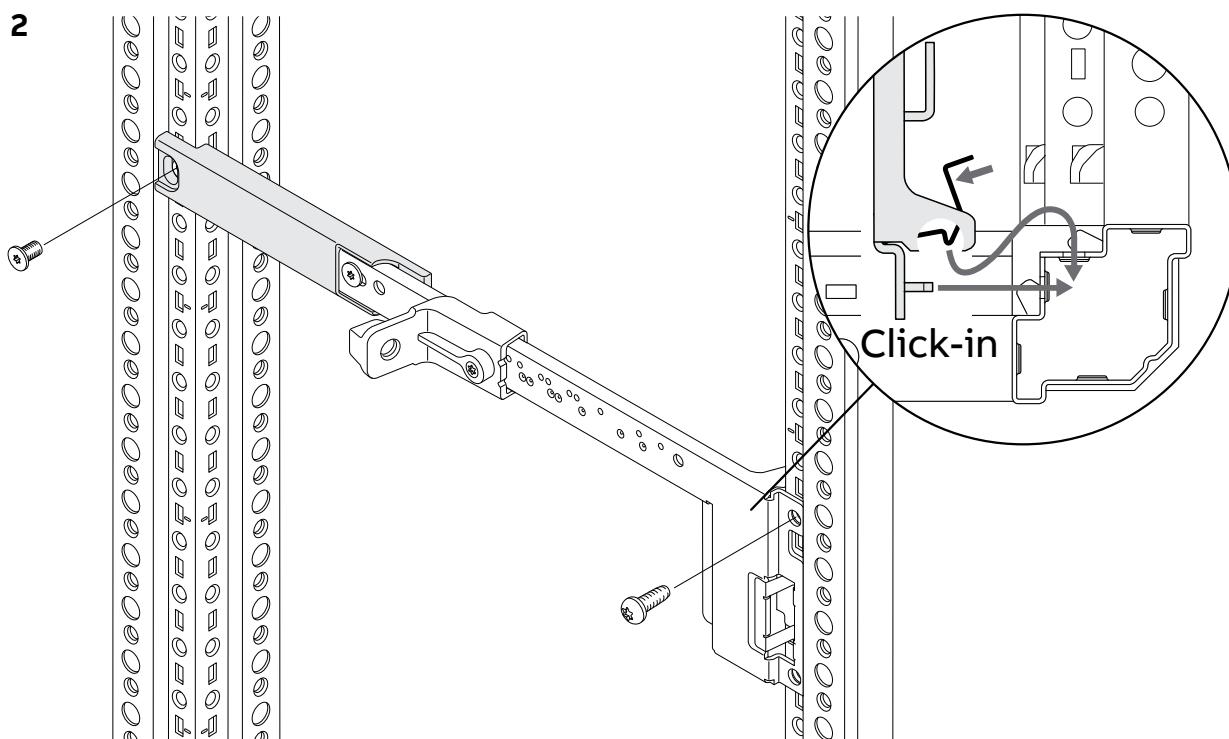
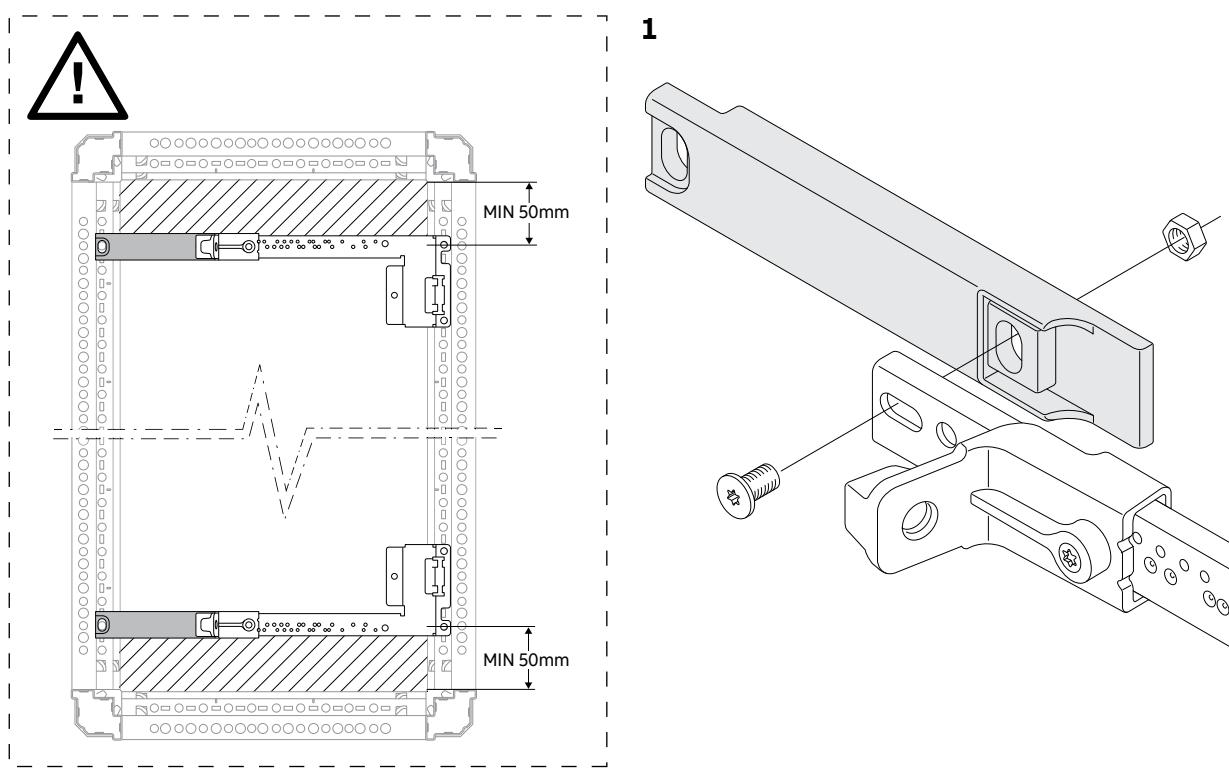
## Extension kit for D=300mm structures



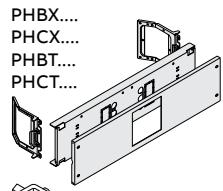
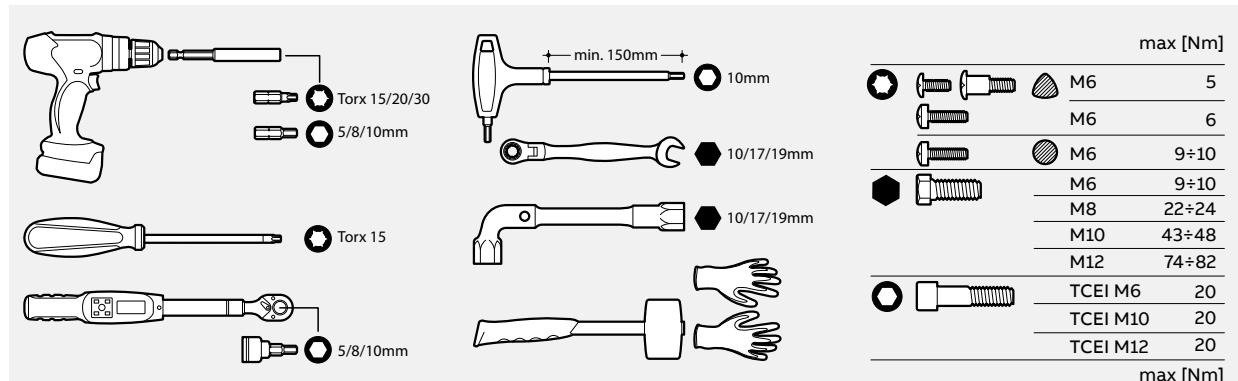
PKEK0004



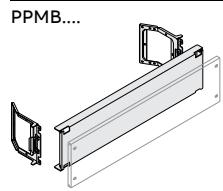
2 M6x10 Torx 30  
2x M6 10mm



## Tmax XT - Tmax T H = 150mm



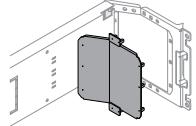
4x M6x10 Torx 30  
8x M6x10 Torx 30



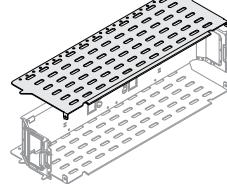
8x M6x10 Torx 30

## Segregation Form 2a-3a

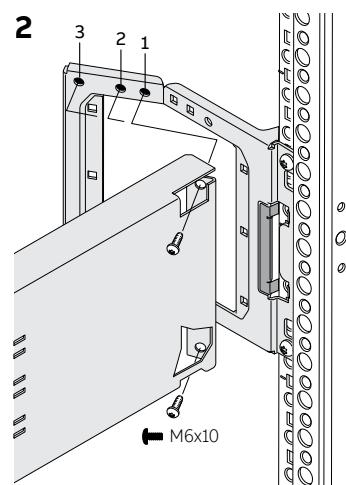
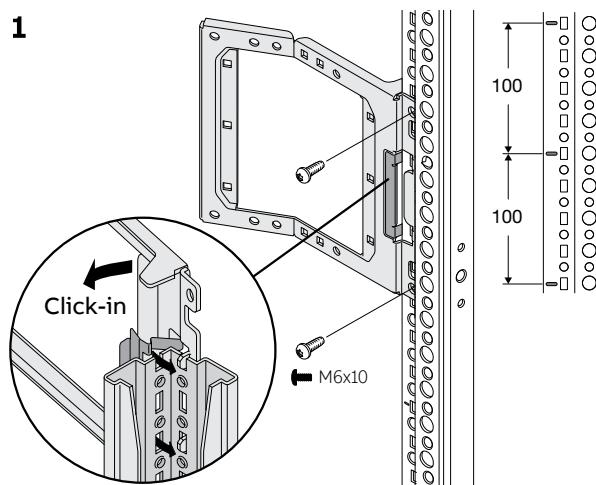
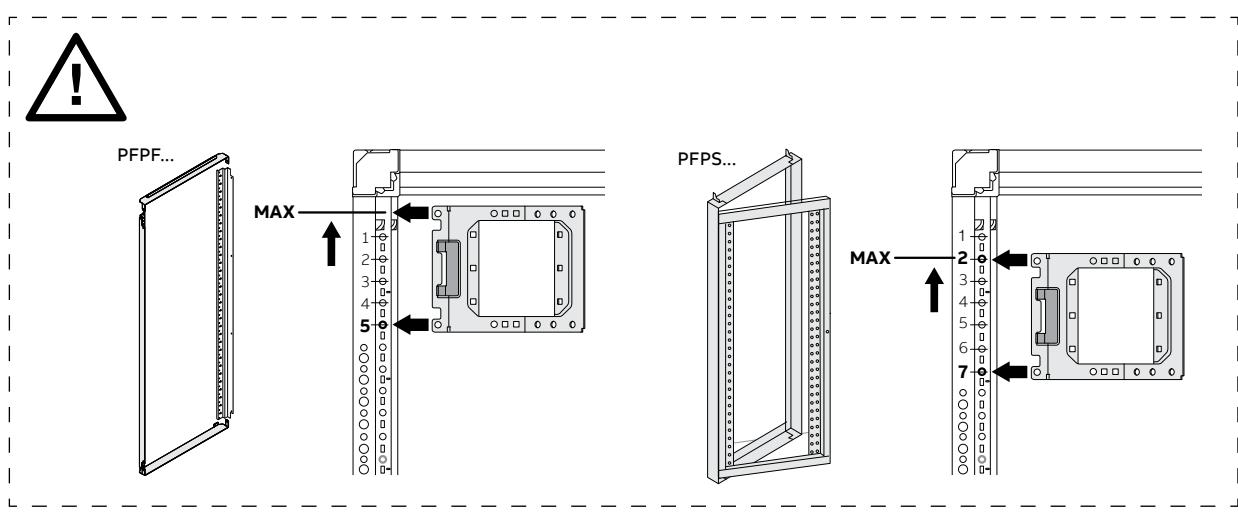
PPRS0150



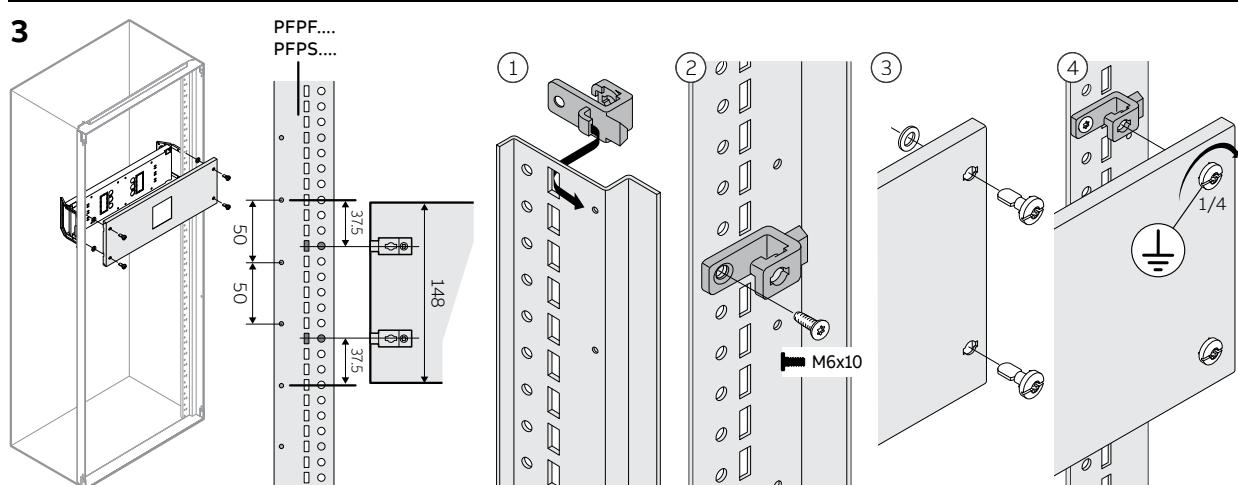
PSHS....

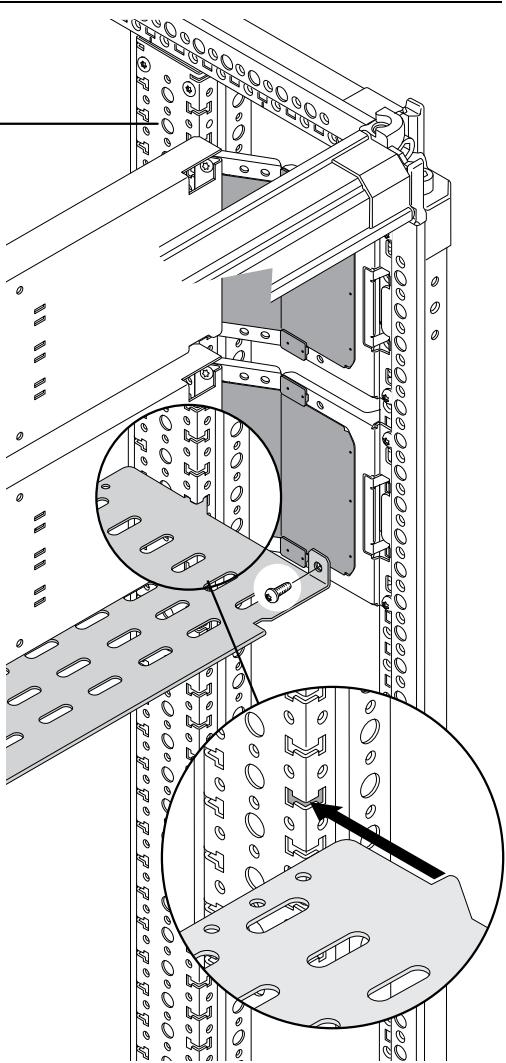
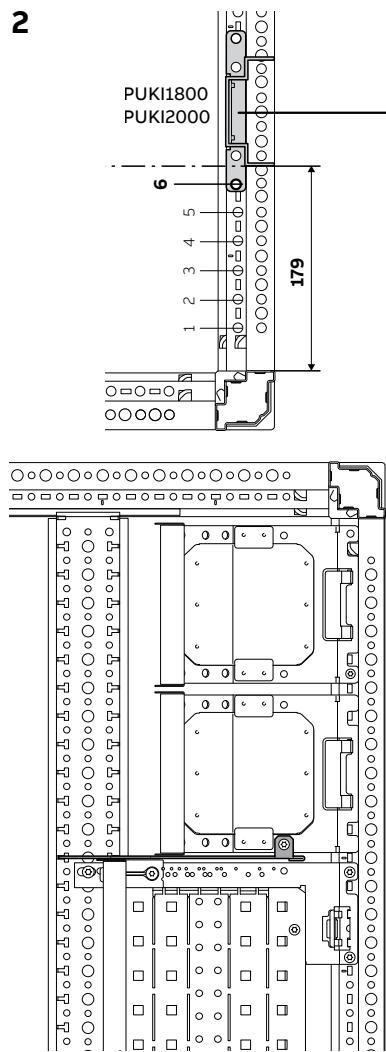
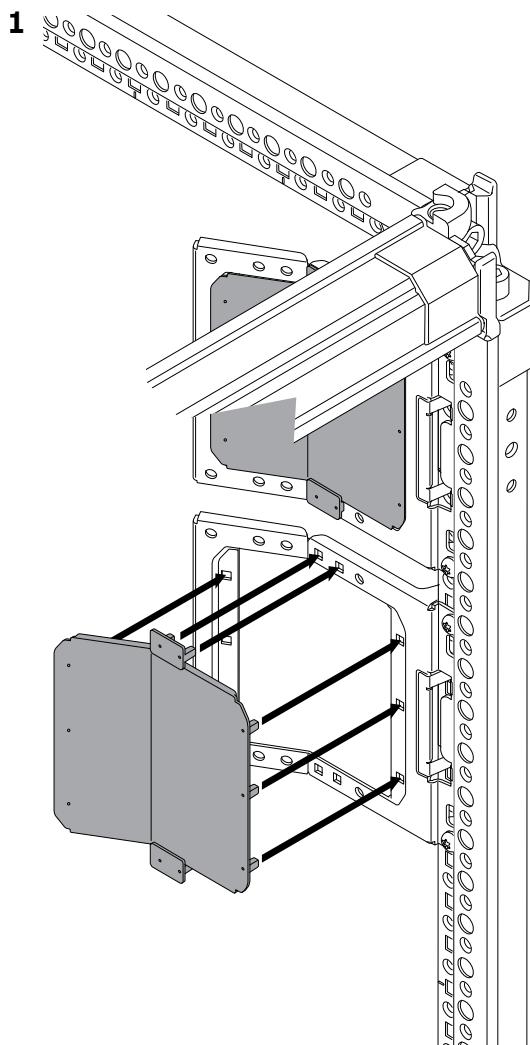


4x M6x10 Torx 30



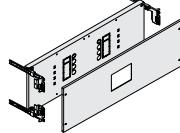
	F	F RHD
XT1 (3/4P)	1	3
XT2 (3P)	2	
XT3 (3P)	1	3
XT4 (3P)	2	
T4 (3P)	3	



**Segregation Form 2a-3a**

## Tmax XT- Tmax T - Emax E1.2 - OT - Blind mounting plates

PHBX.../PHCX.../PHBT...  
PHCT.../PHDT.../PHCE...  
PHDE.../PVGX.../PVBT...  
PVCT.../PVDT.../PVCE...  
PVDE....



4x M6x10 Torx 30  
4x M6x10  
4x TCEI M6x12  
4x M6x16  
4x M6x10 Torx 15

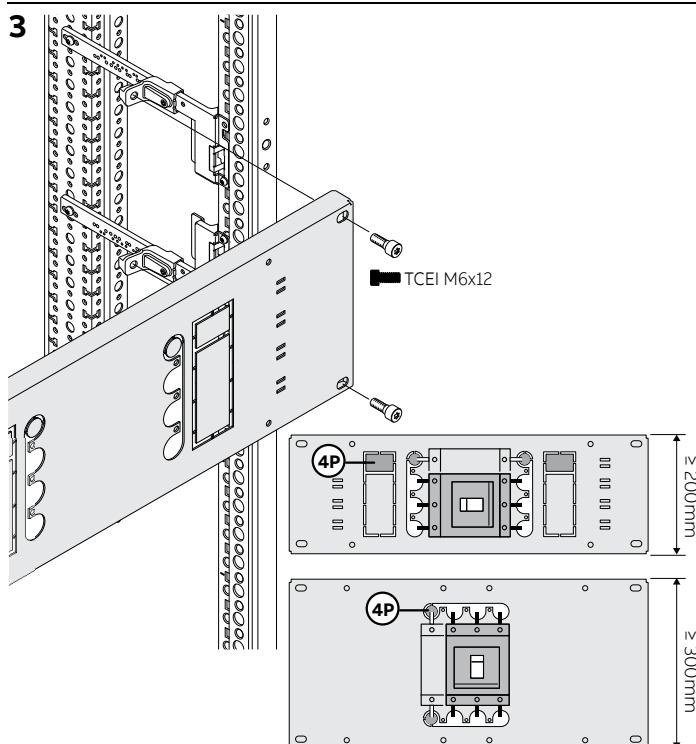
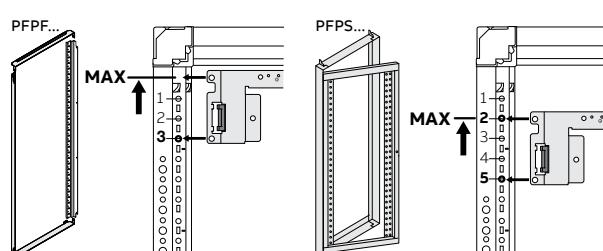
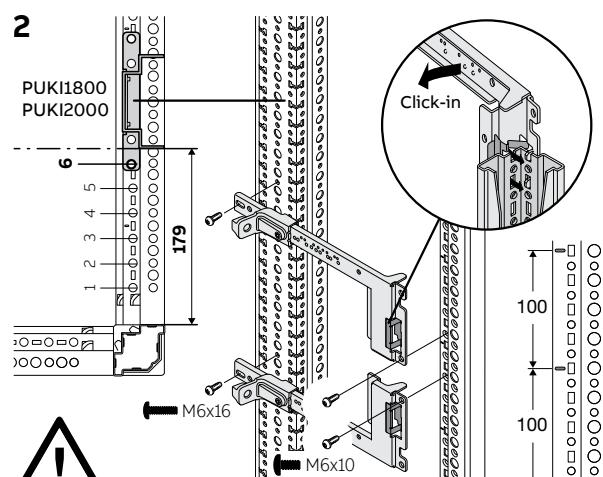
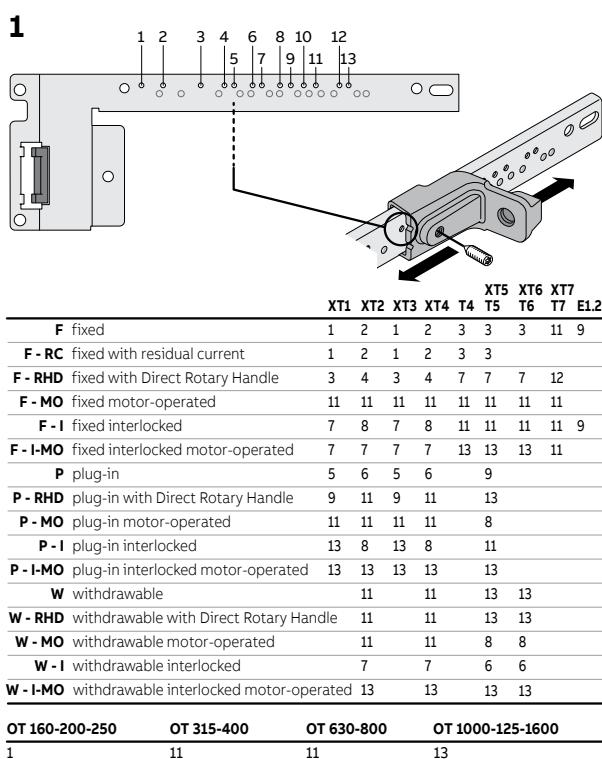
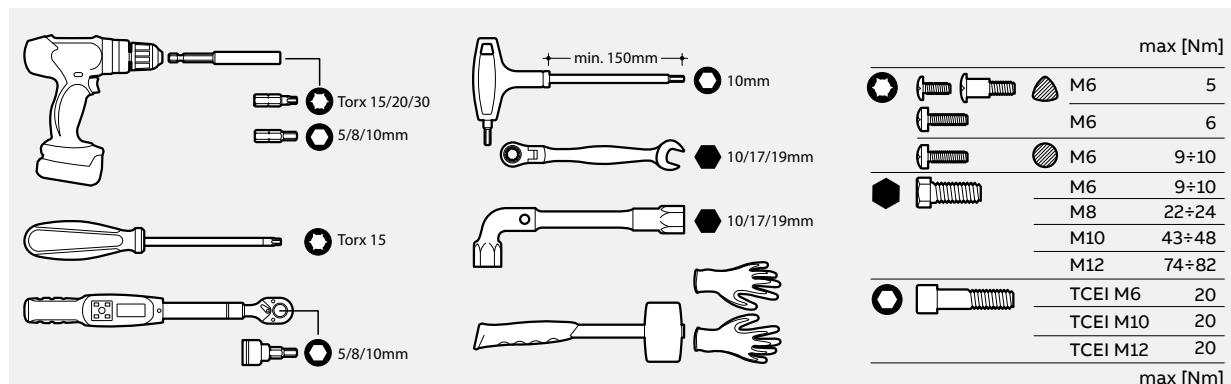
PKOH....  
PKOV....  
  
4x M6x10 Torx 30  
4x M6x10  
4x TCEI M6x12  
4x M6x16  
4x M6x10 Torx 15

PPMB....  
  
4x M6x10 Torx 30  
4x M6x10  
4x TCEI M6x12  
4x M6x16  
4x M6x10 Torx 15

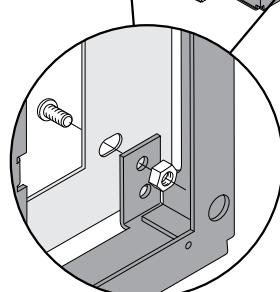
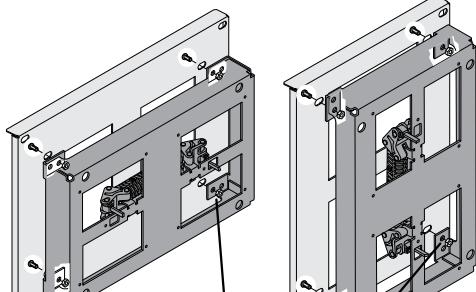
## Segregation Form 2a-3a

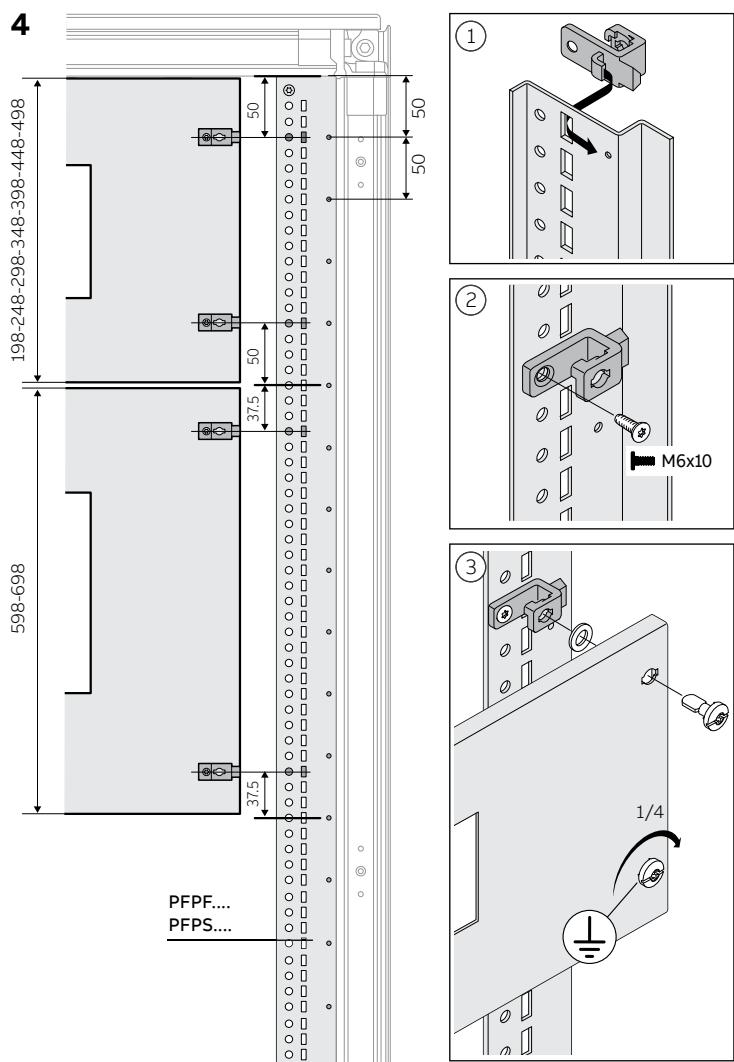
PPVS....  
  
4x M6x10 Torx 30

PPRS....  
  
PSHS....  
  
4x M6x10 Torx 30

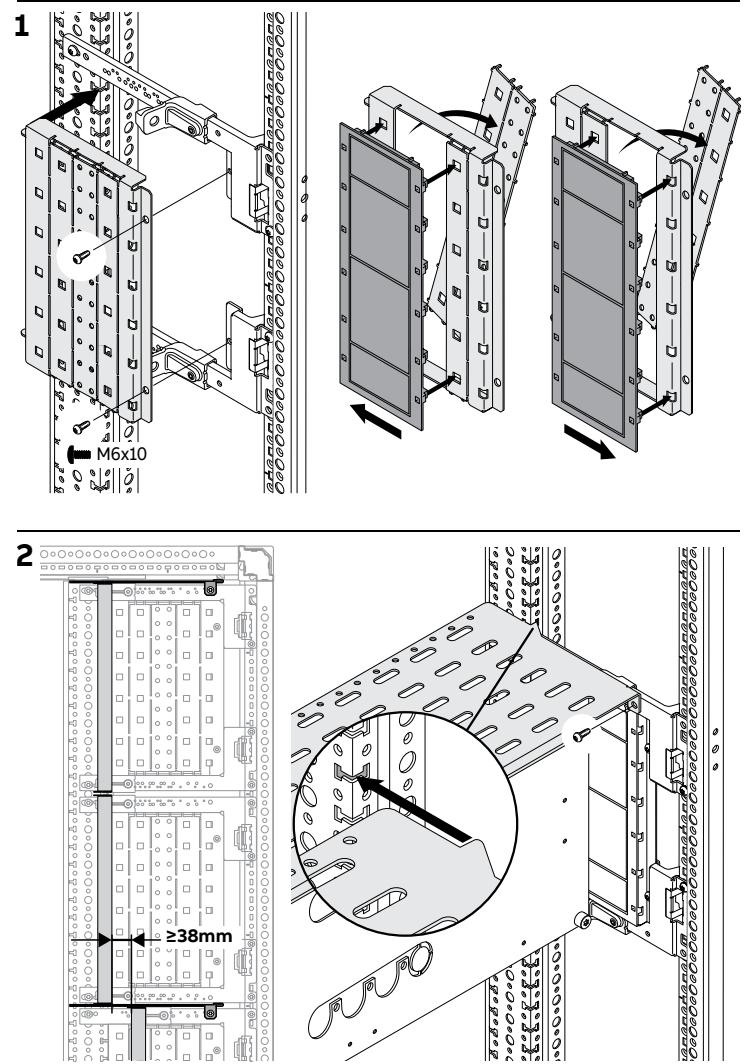


## plate-interlocking

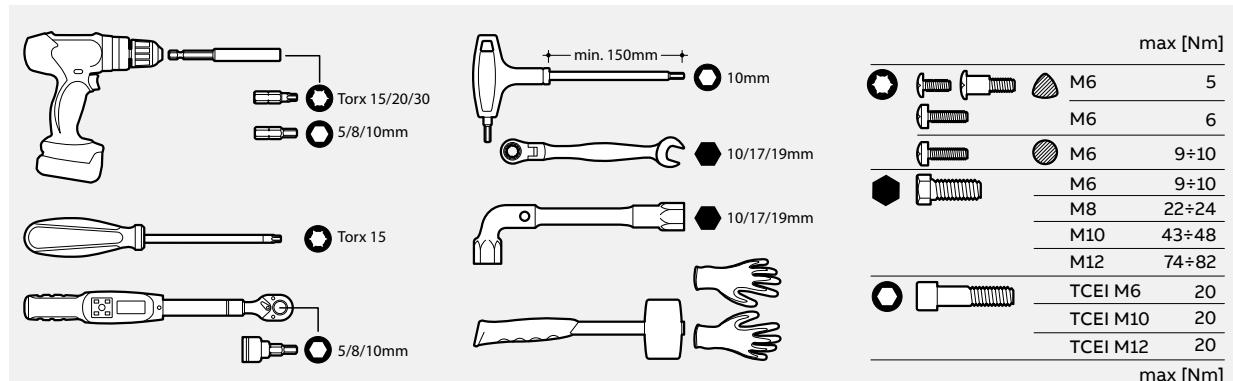




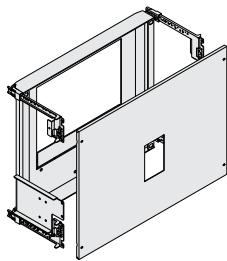
## Segregation Form 2a-3a



## Tmax T7 W- Emax E1.2 W - horizontal



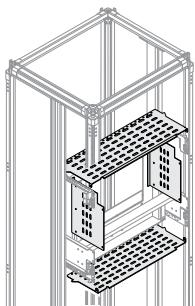
PHCT7430-PHDT7430  
PHCE1240-PHDE1240  
PHGT7430-PHIT7430



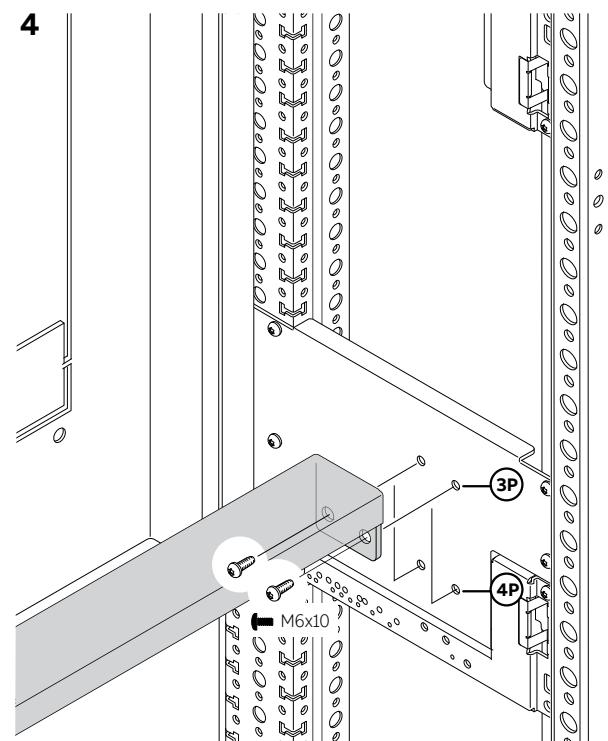
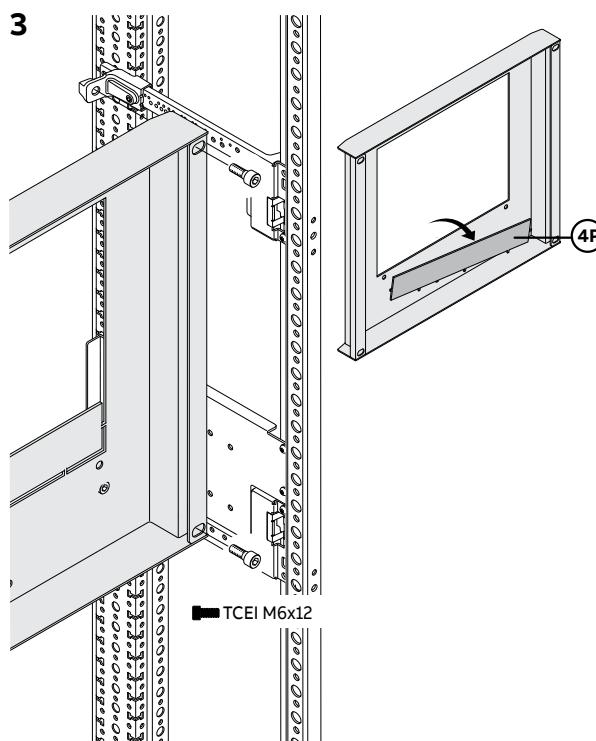
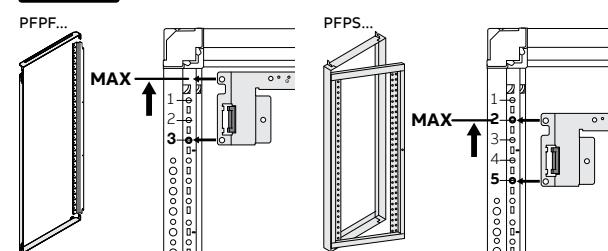
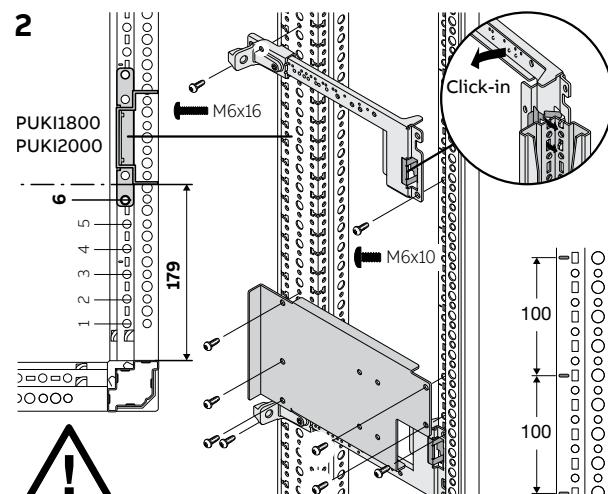
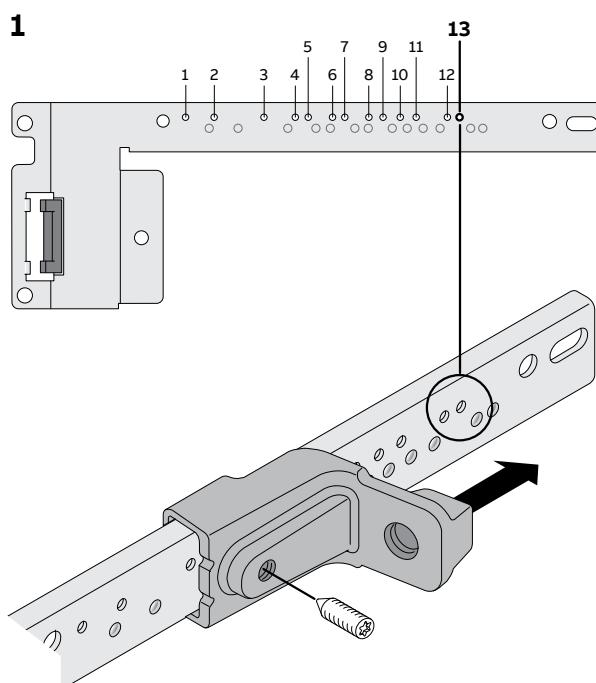
4x M6x10 Torx 30  
4x M6x10  
4x TCEI M6x12  
4x M6x16  
4x M6x10 Torx 15

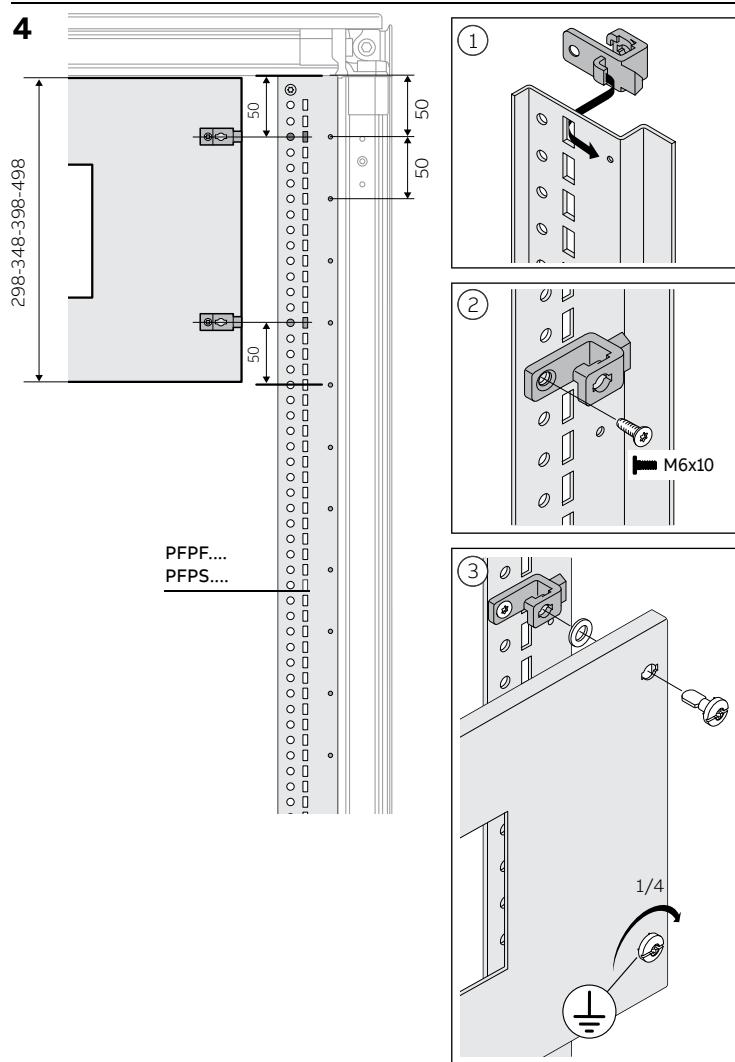
## Segregation Form 2a-3a

PSHW5061  
PSHW5081

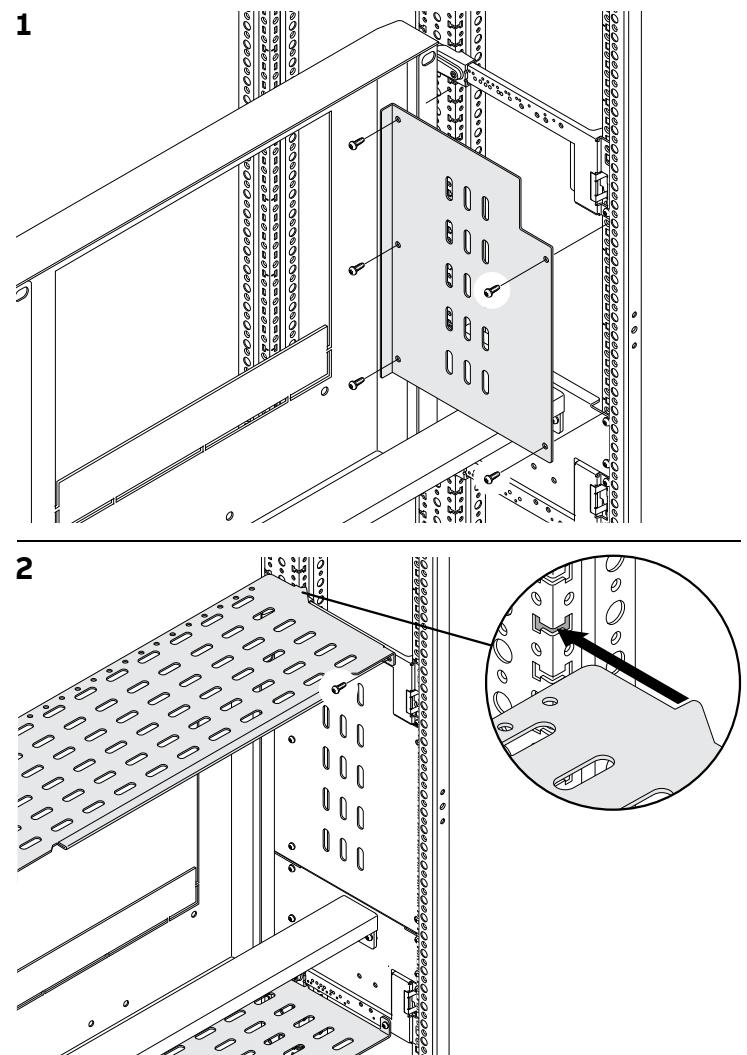


14x M6x10 Torx 30

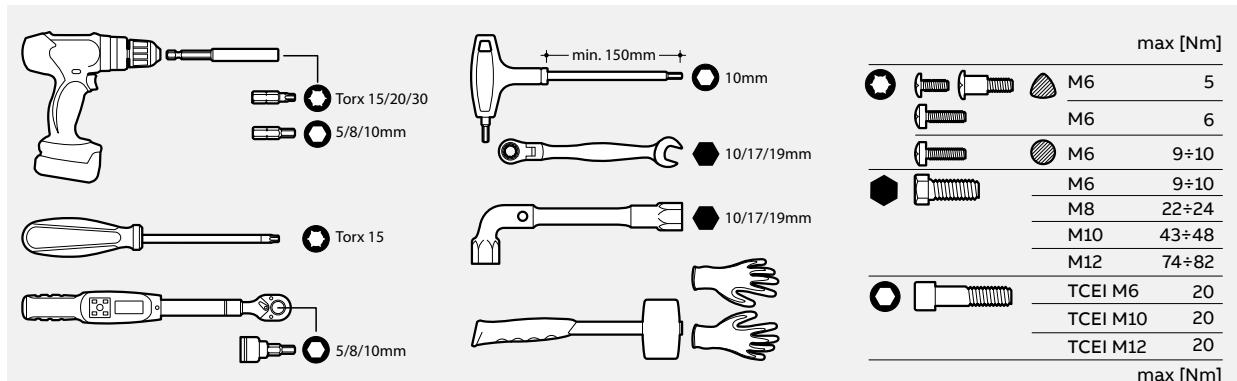




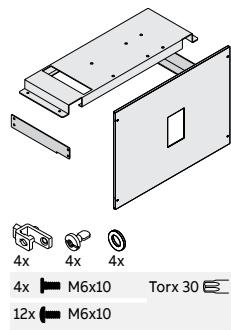
## Segregation Form 2a-3a



## Tmax T7 - Emax E1.2 - vertical

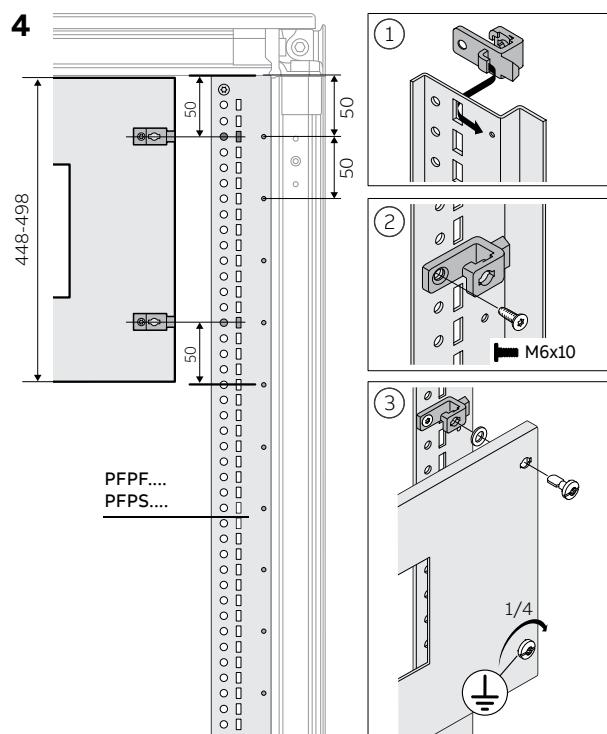
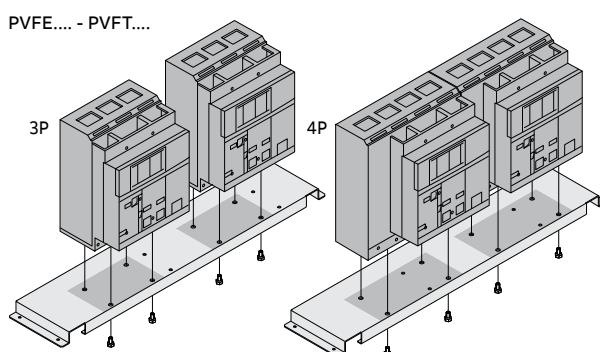
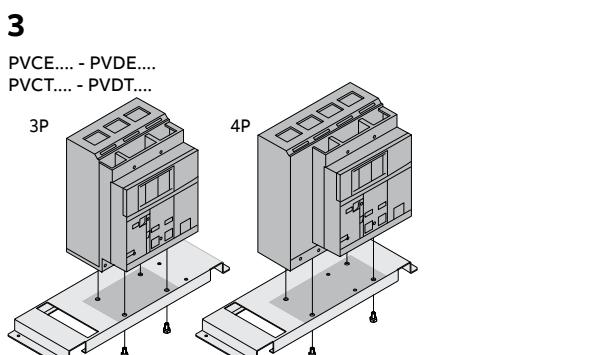
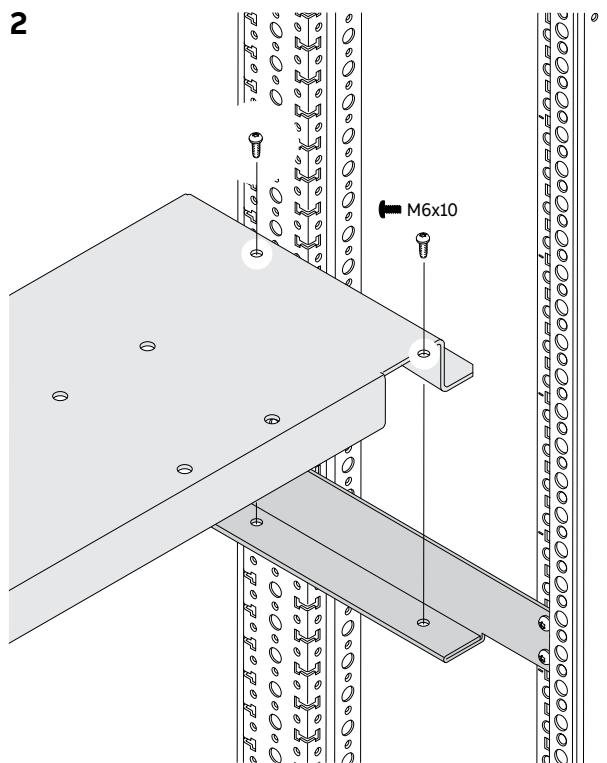
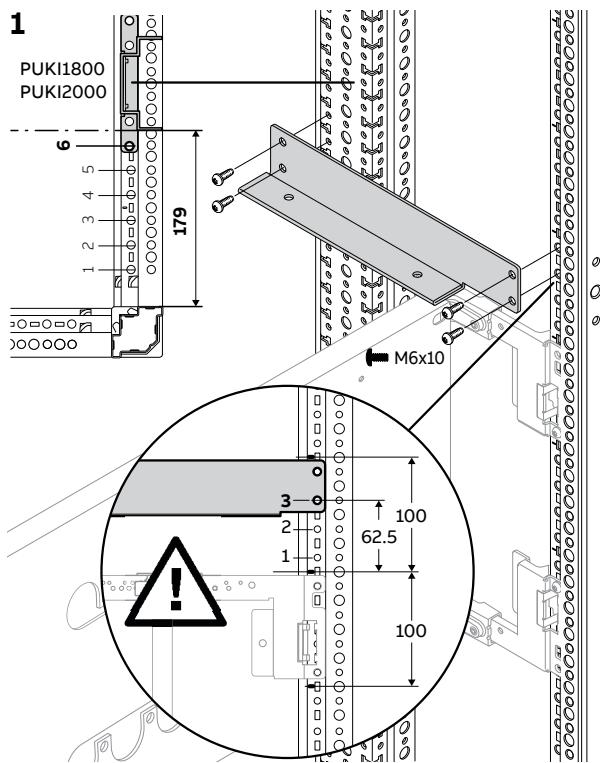
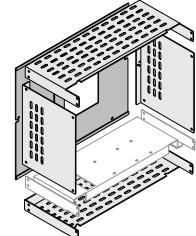


PVCE.... - PVDE....  
PVFE.... - PVCT....  
PVDT.... - PVFT....



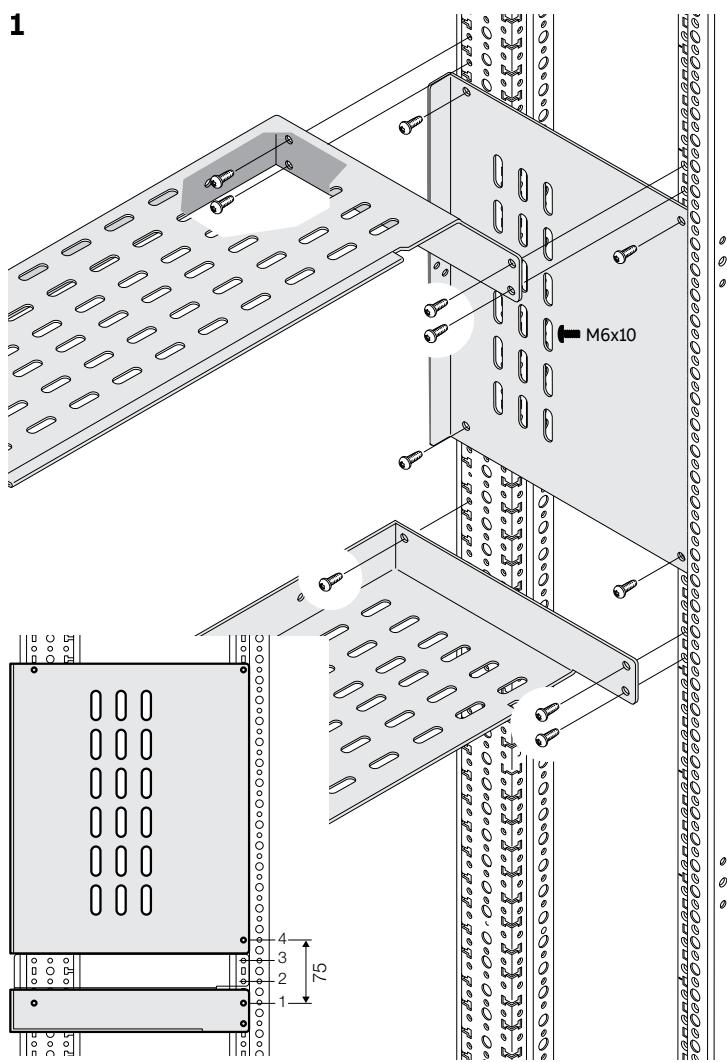
## Segregation Form 2a-3a

PSVW...1

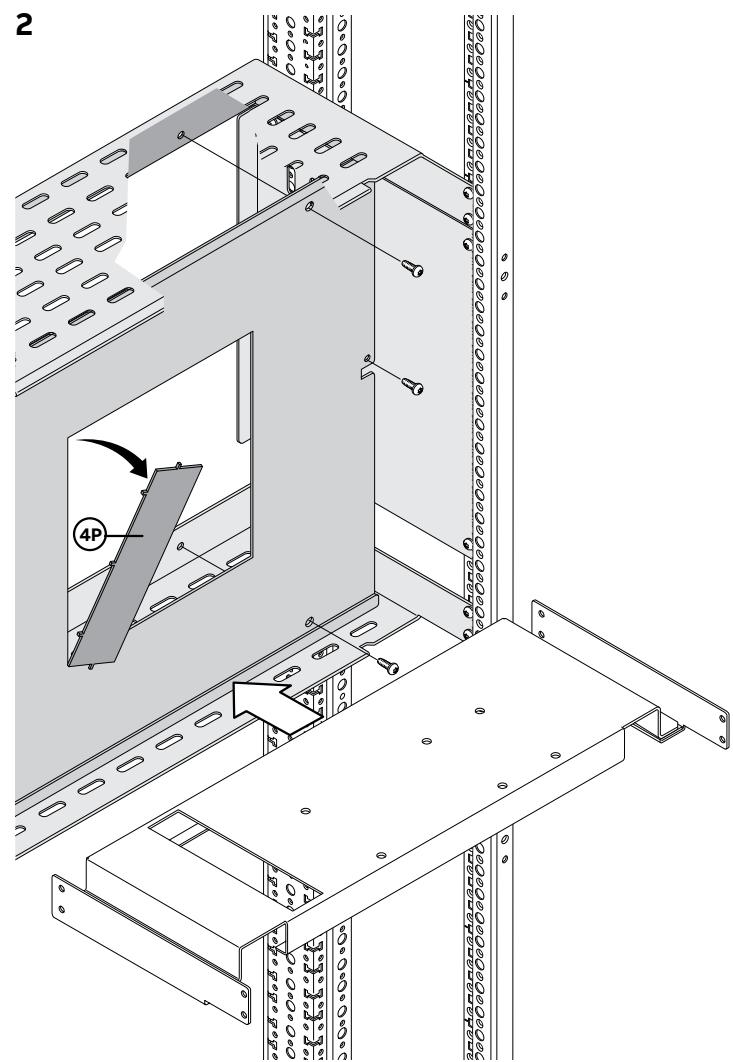


## Segregation Form 2a-3a

1

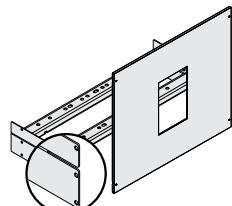


2



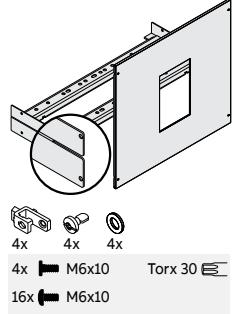
## Emax E2.2 - Emax E4.2 - vertical

PVCE....  
PVDE....  
Emax E2.2 - E4.2 F



4x  
4x  
4x  
4x M6x10 Torx 30  
20x M6x10

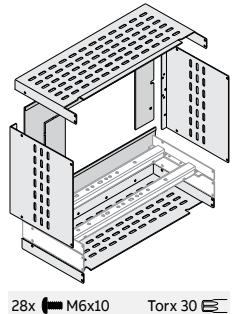
Emax E2.2 - E4.2 W



Segregation Form 2a-3a

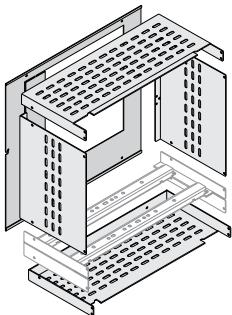
PSVW....2  
PSVW....4

Emax E2.2 - E4.2 F

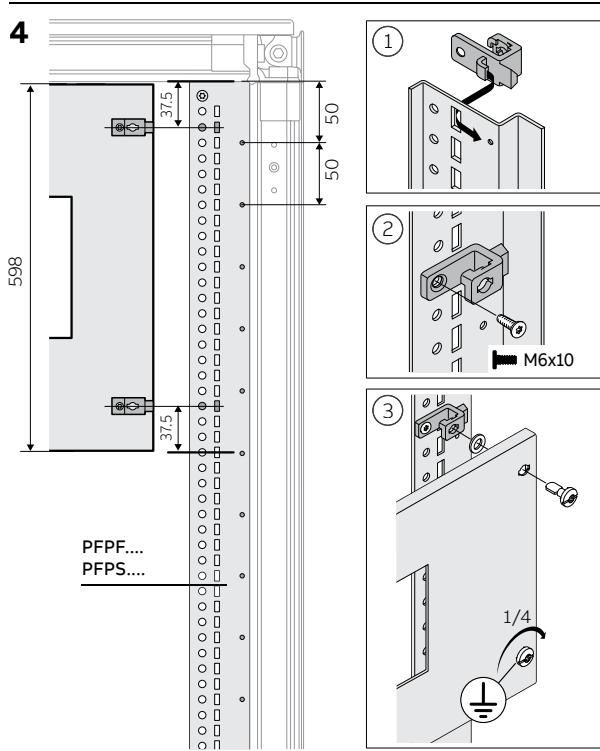
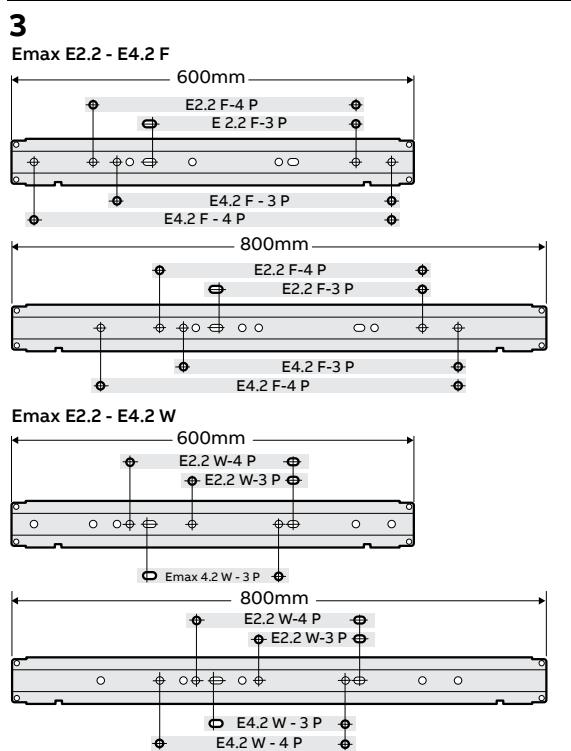
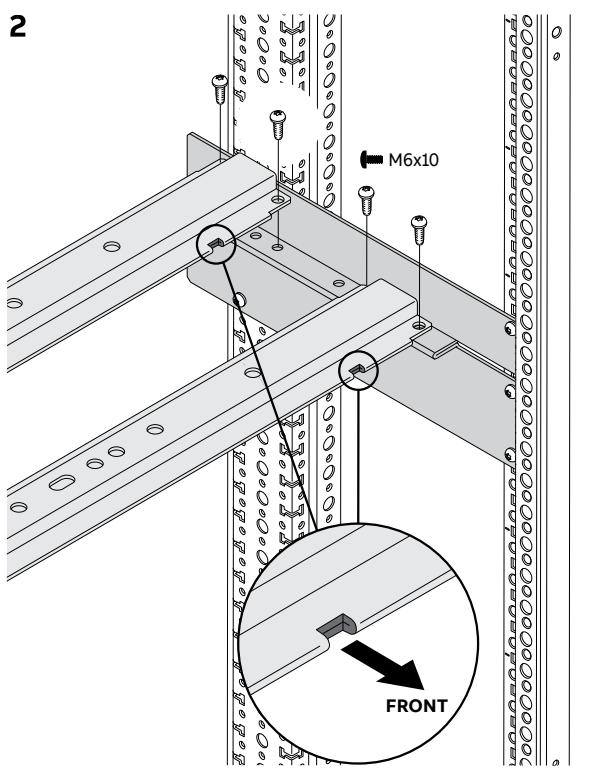
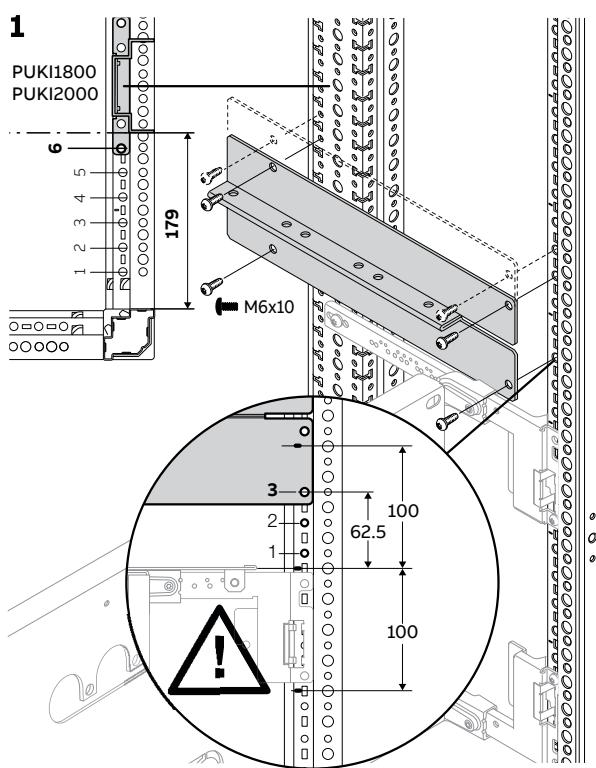
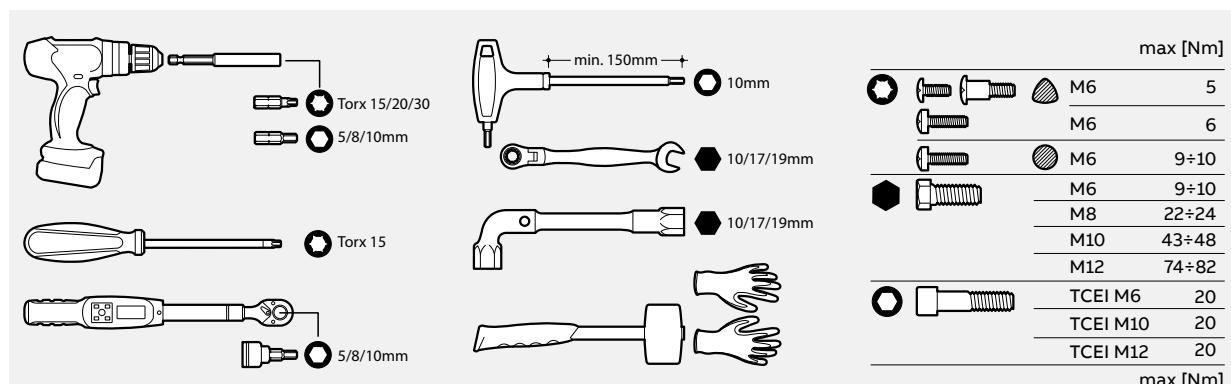


28x M6x10 Torx 30

Emax E2.2 - E4.2 W



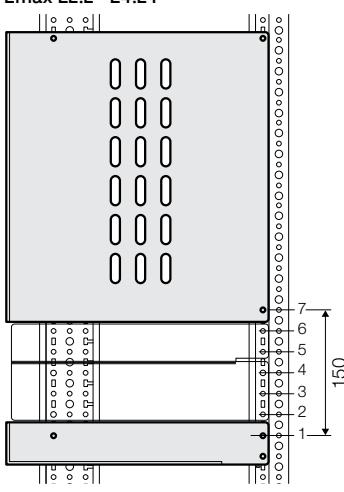
26x M6x10 Torx 30



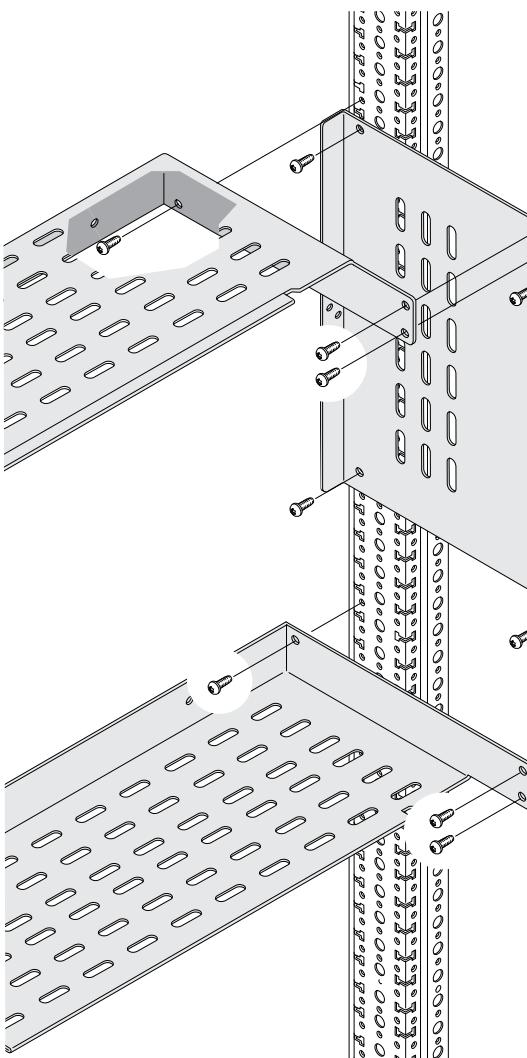
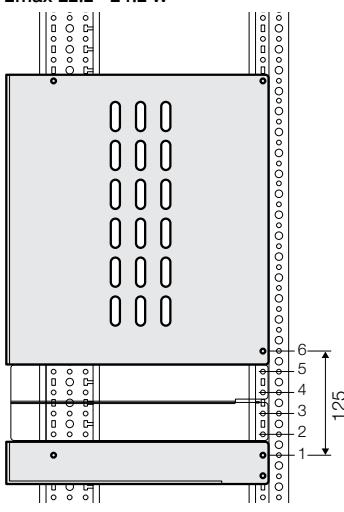
## Segregation Form 2a-3a

1

Emax E2.2 - E4.2 F

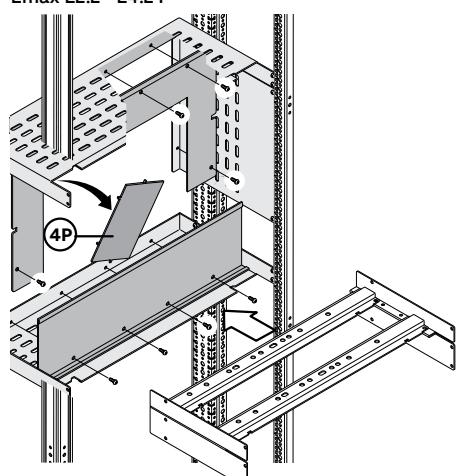


Emax E2.2 - E4.2 W

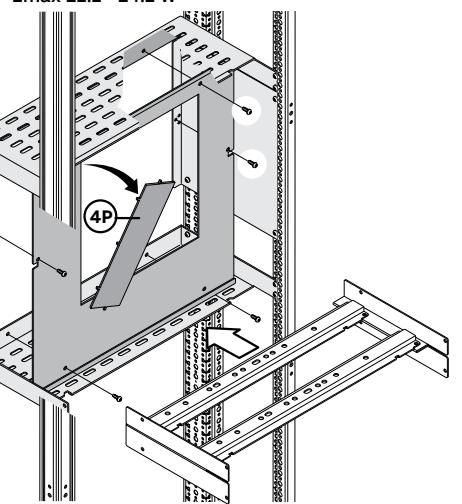


2

Emax E2.2 - E4.2 F



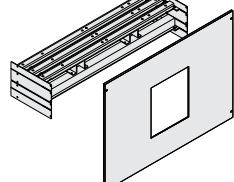
Emax E2.2 - E4.2 W



## Emax E6.2 - vertical

Emax E6.2 F

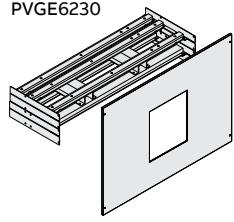
PVGE6231



Emax E6.2 W

PVFE6230

PVGE6230

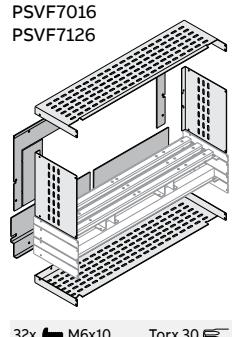


Segregation Form 2a-3a

Emax E6.2 F

PSVF7016

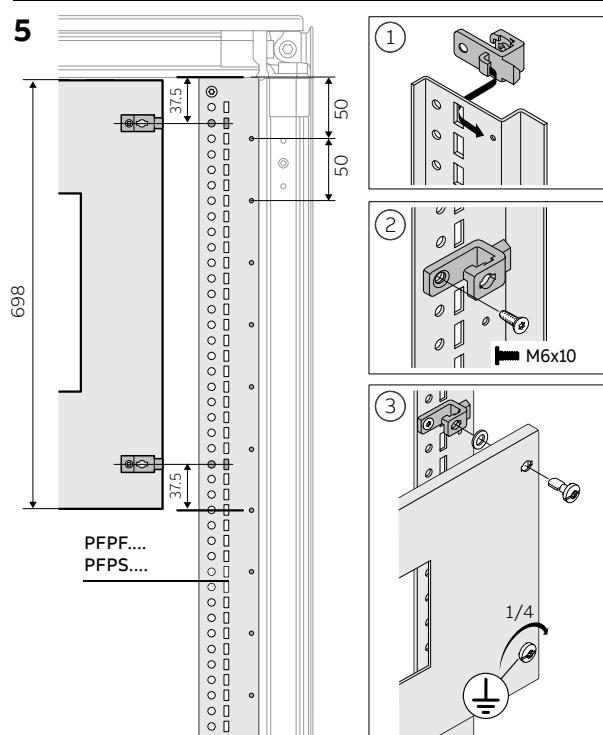
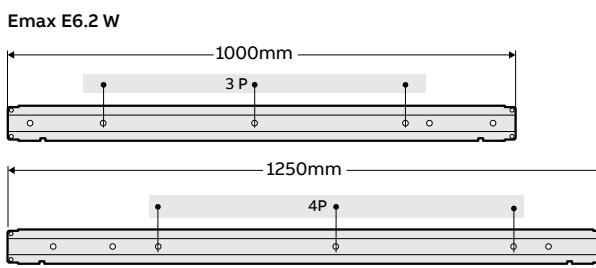
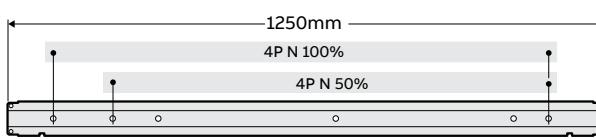
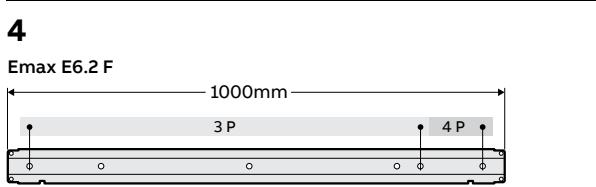
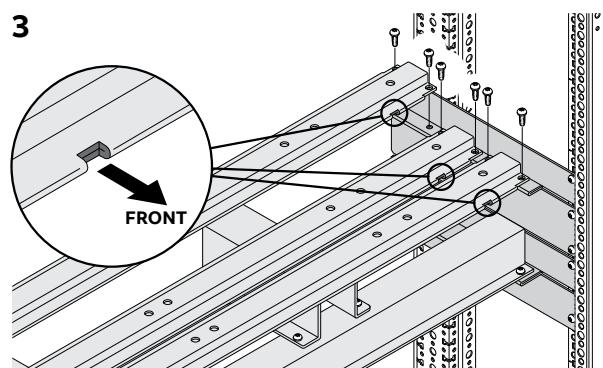
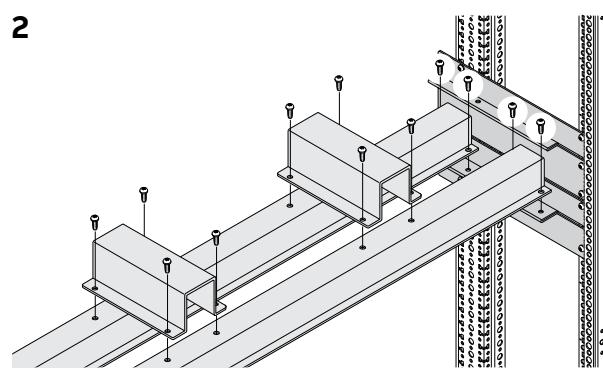
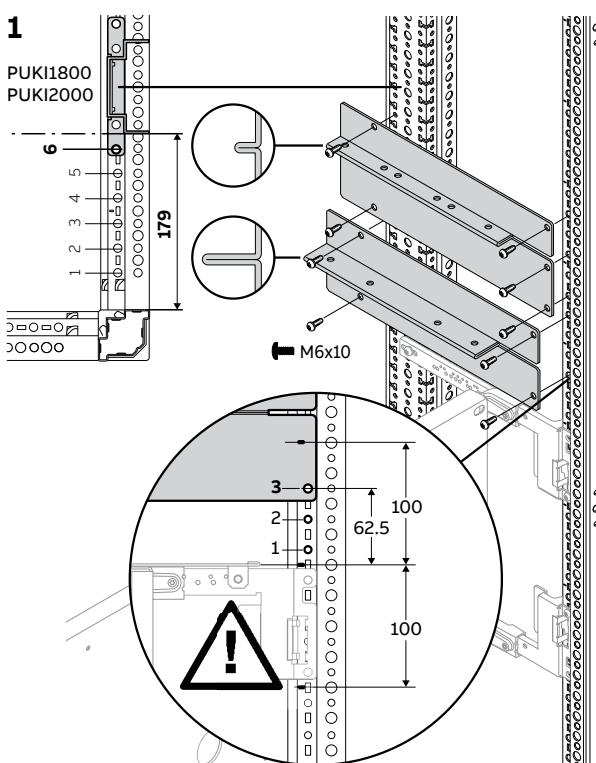
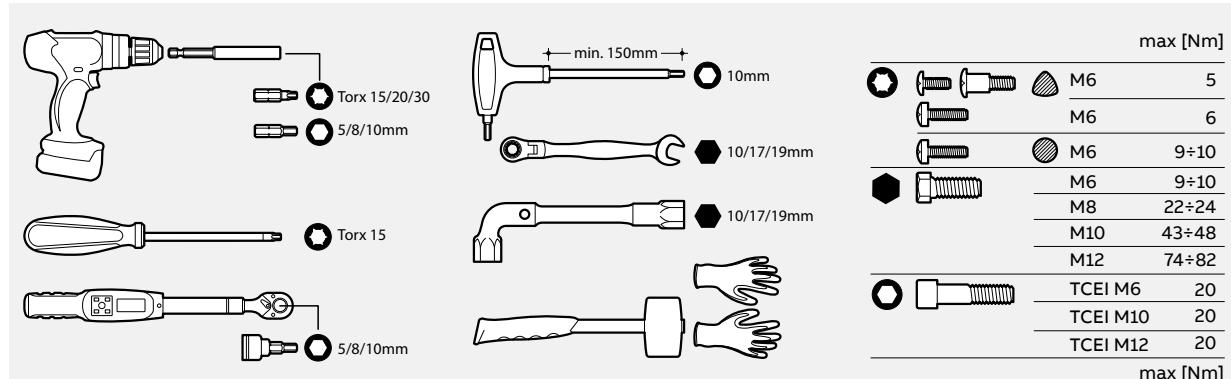
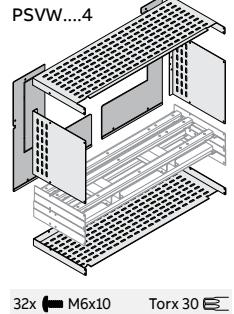
PSVF7126

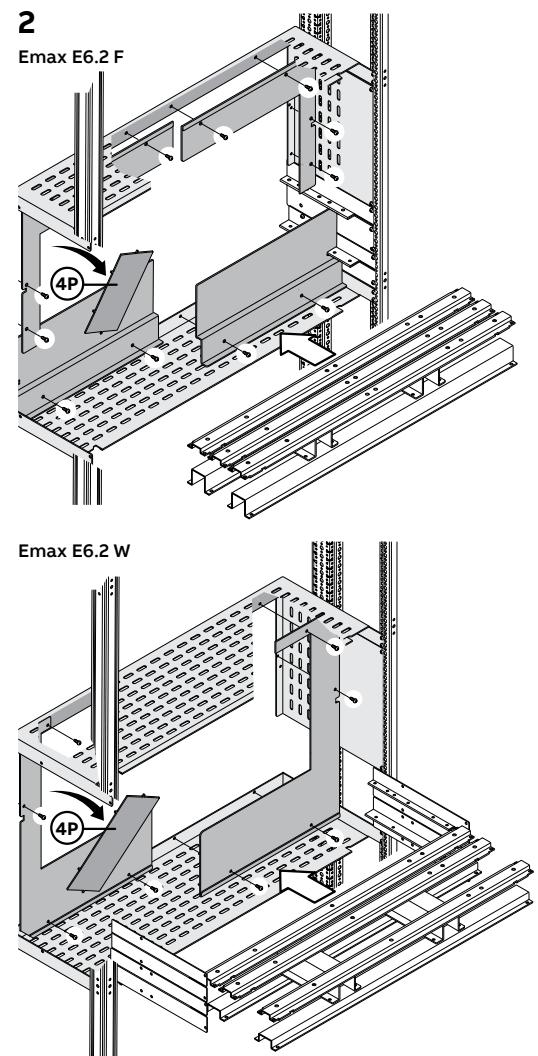
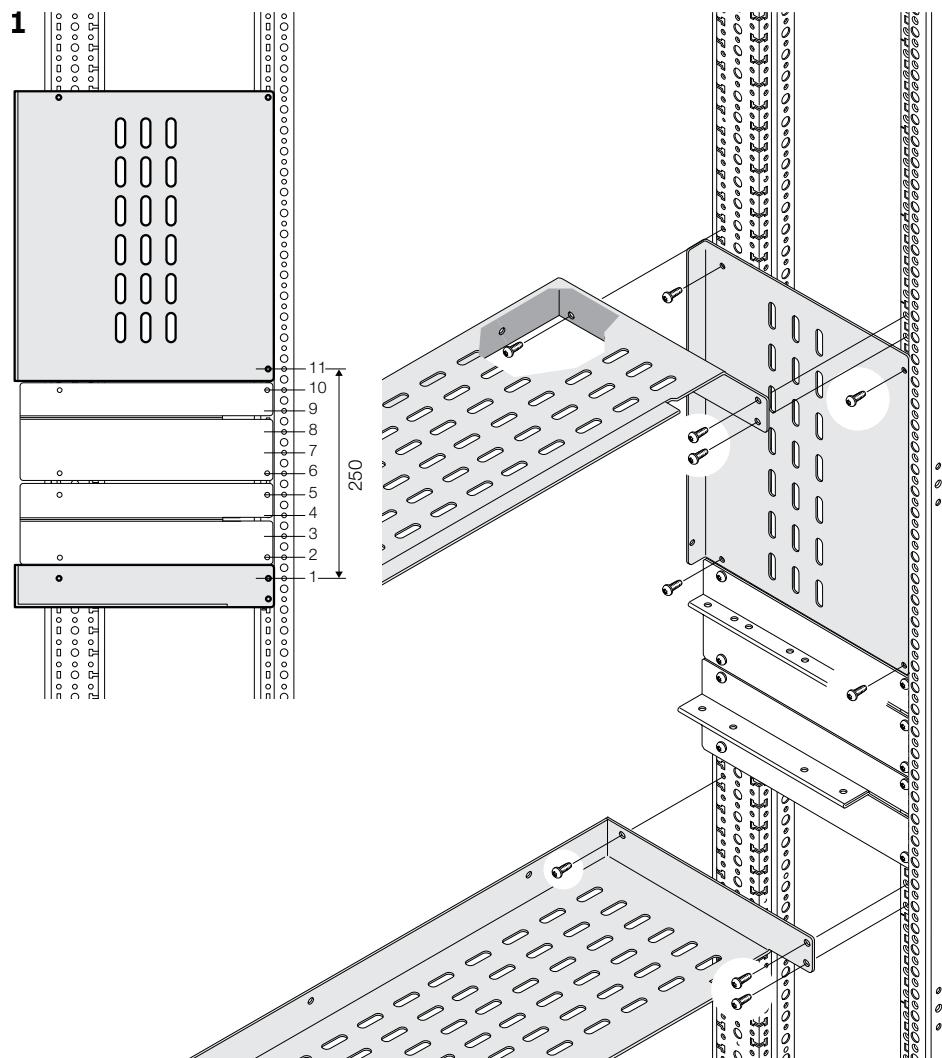


Emax E6.2 W

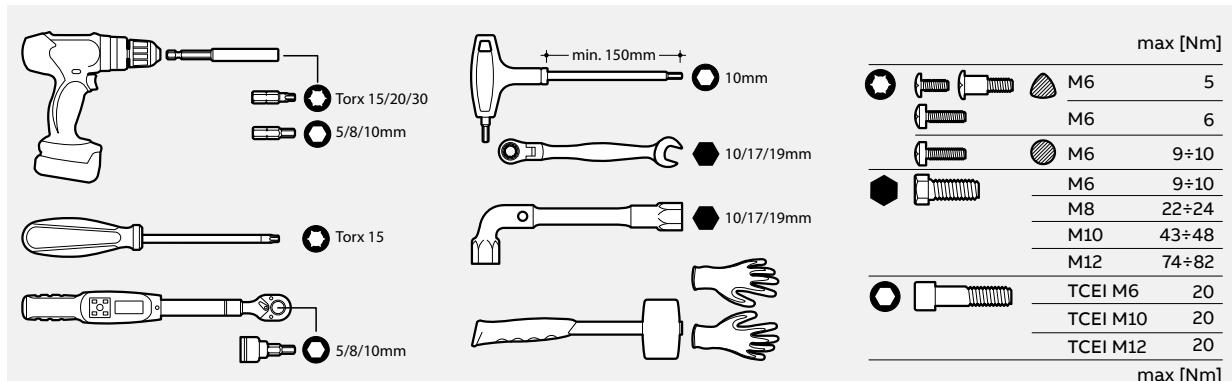
PSVW....2

PSVW....4

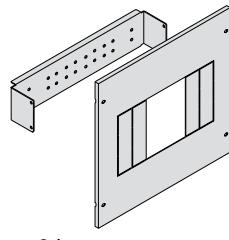


**Segregation Form 2a-3a**

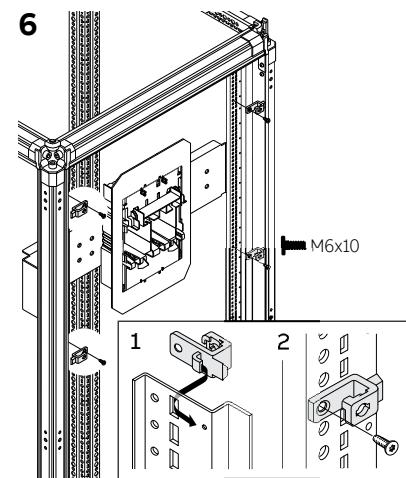
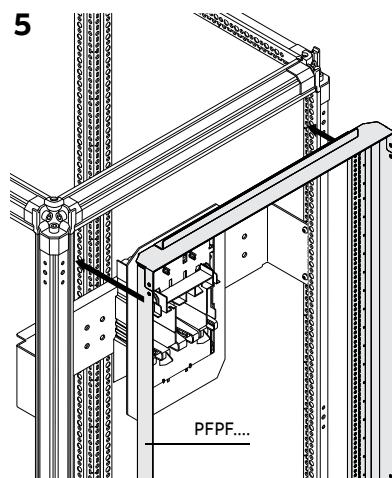
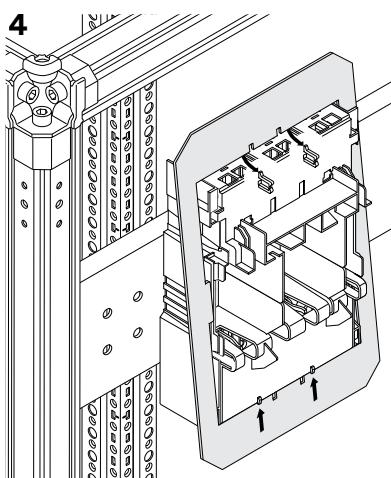
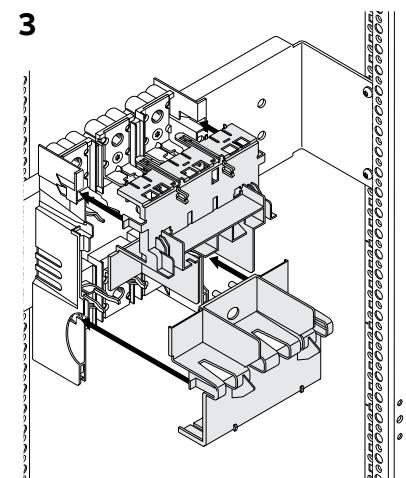
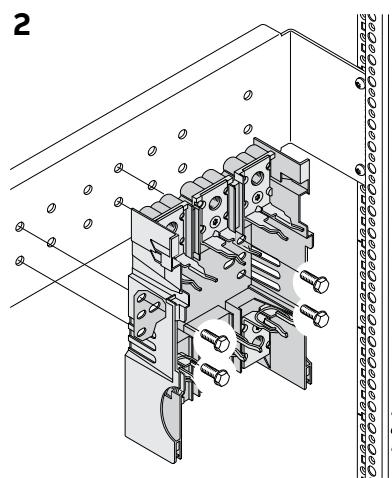
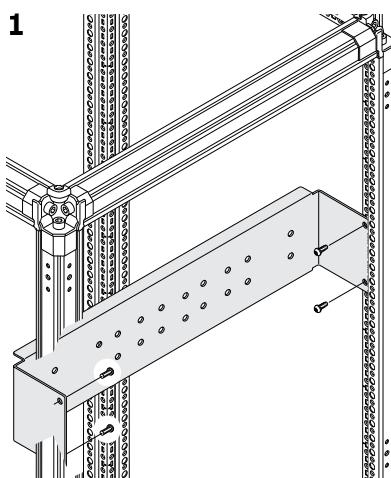
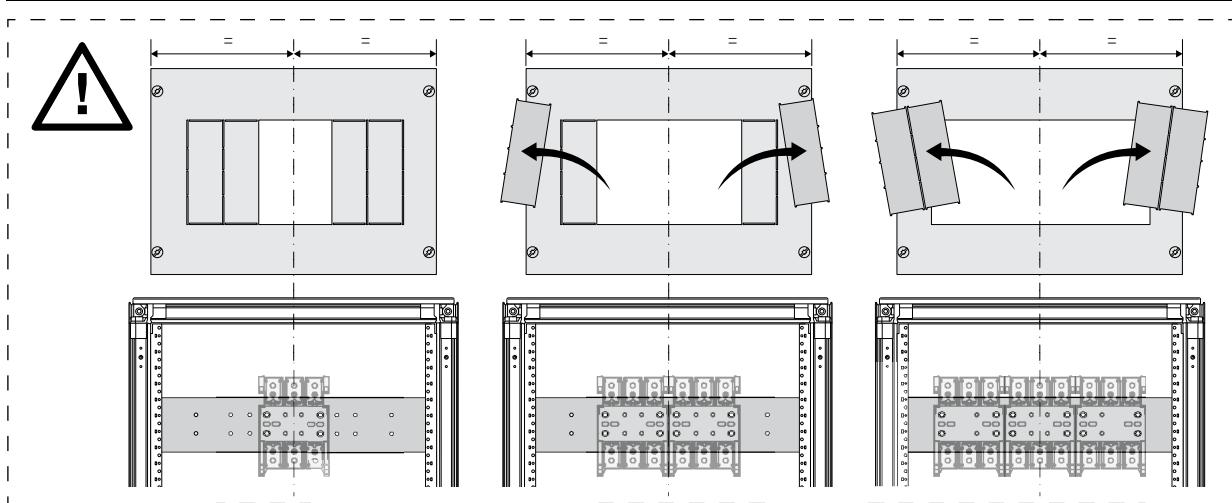
## Kit for Easy Line XLP

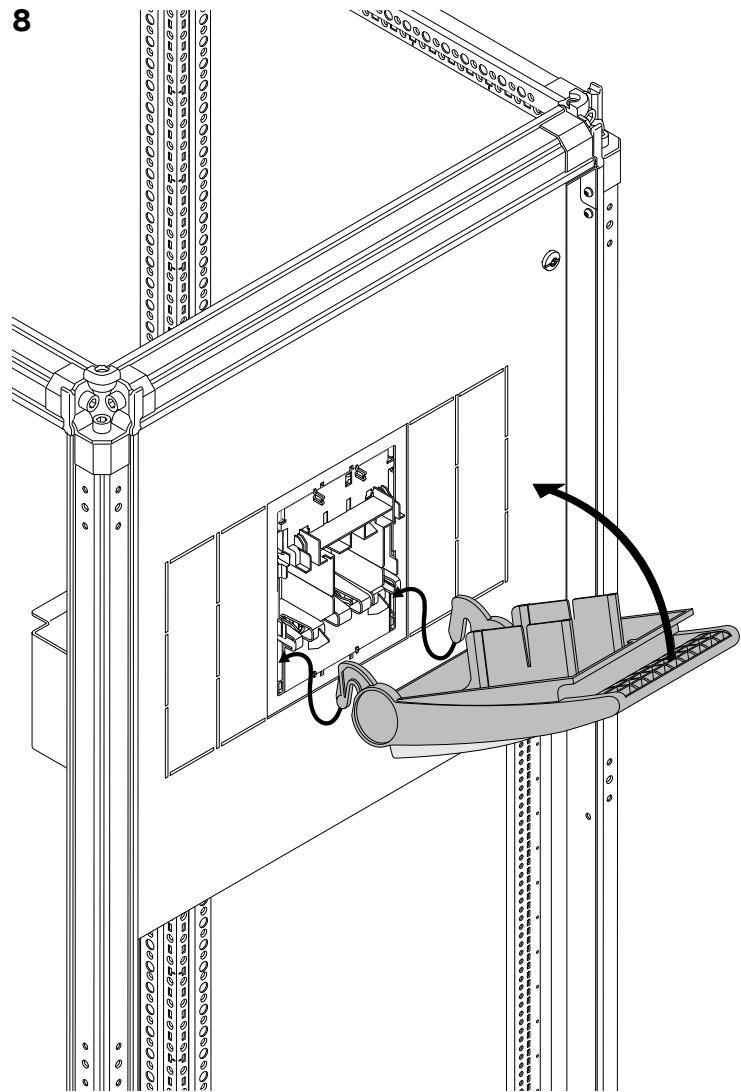
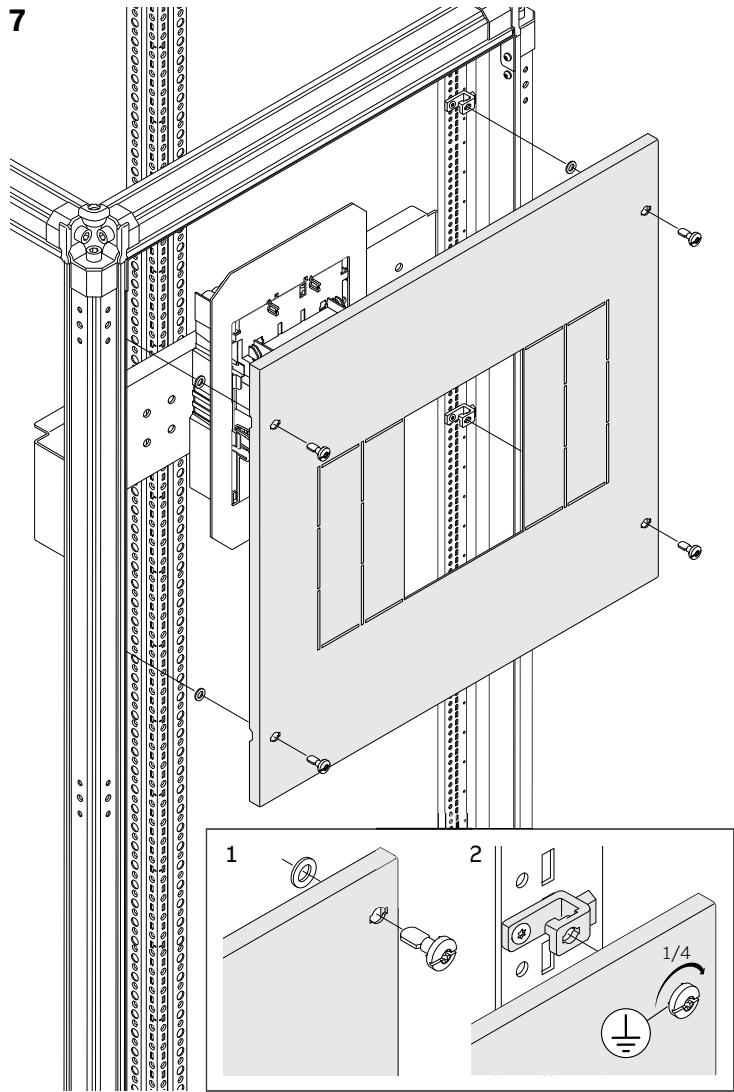


PXLP....

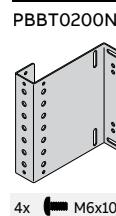


4x 4x 4x   
4x M6x10 Torx 30  
4x M6x10

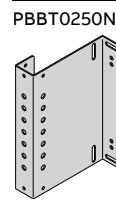
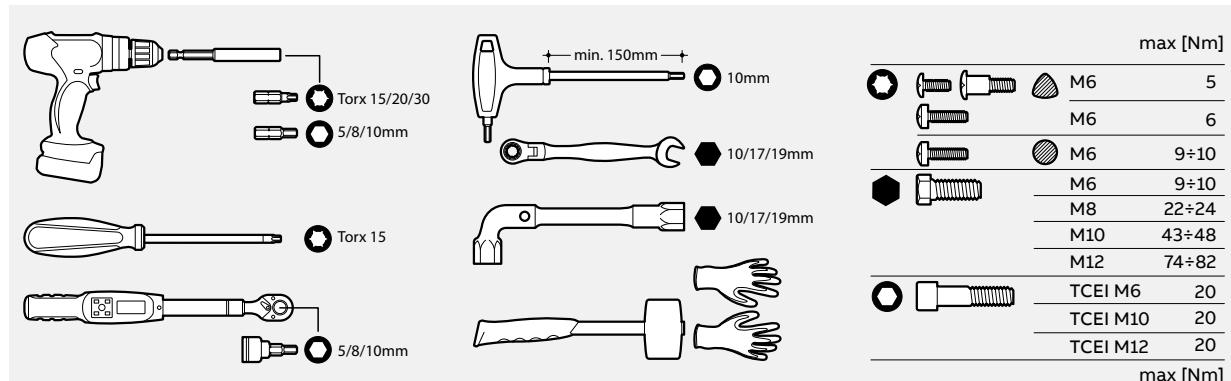




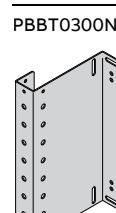
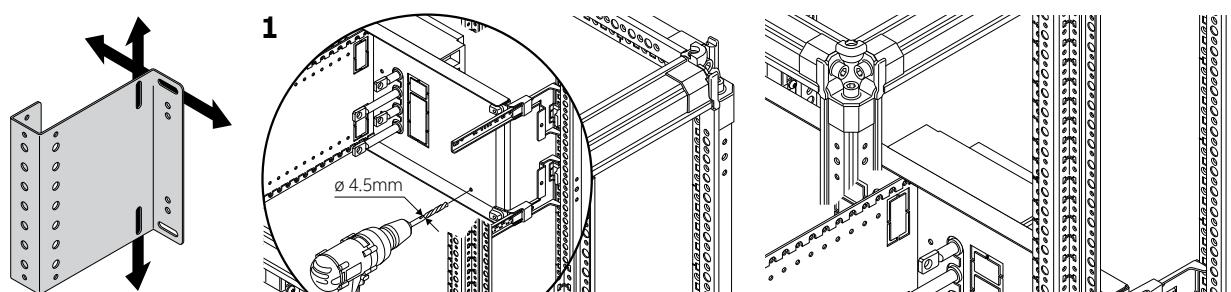
## Brackets for fastening connections towards busbars or to terminate cables for horizontal moulded-case circuit-breakers



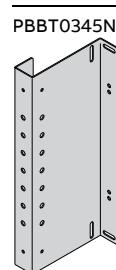
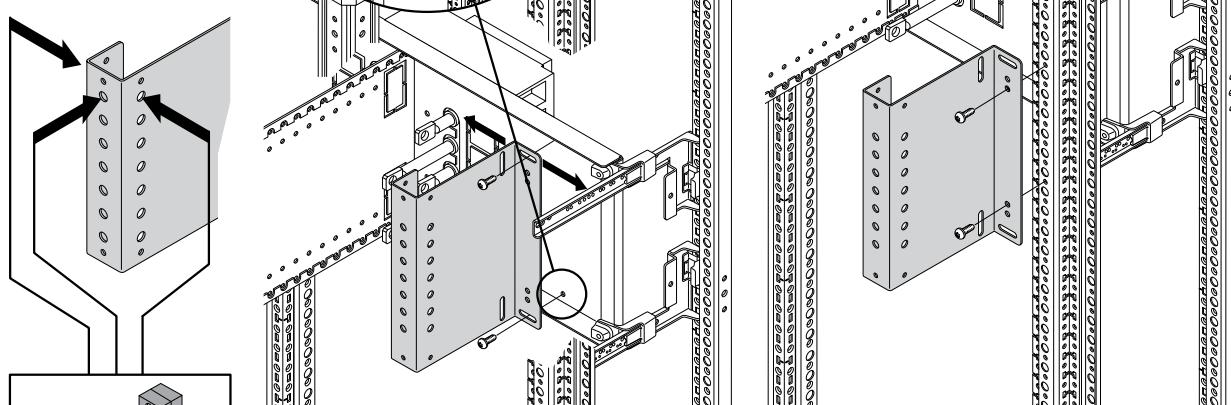
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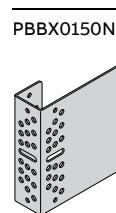
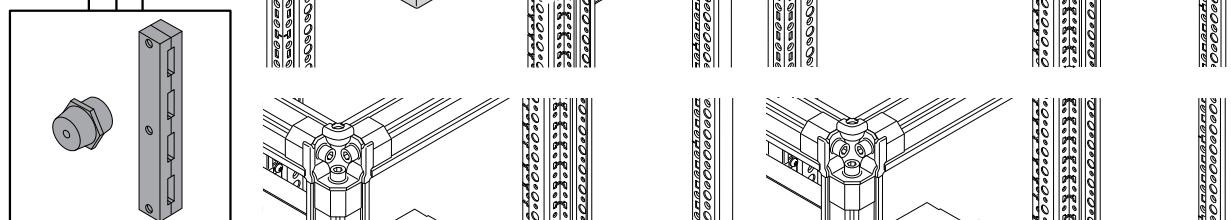
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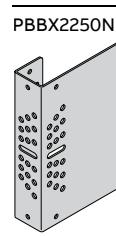
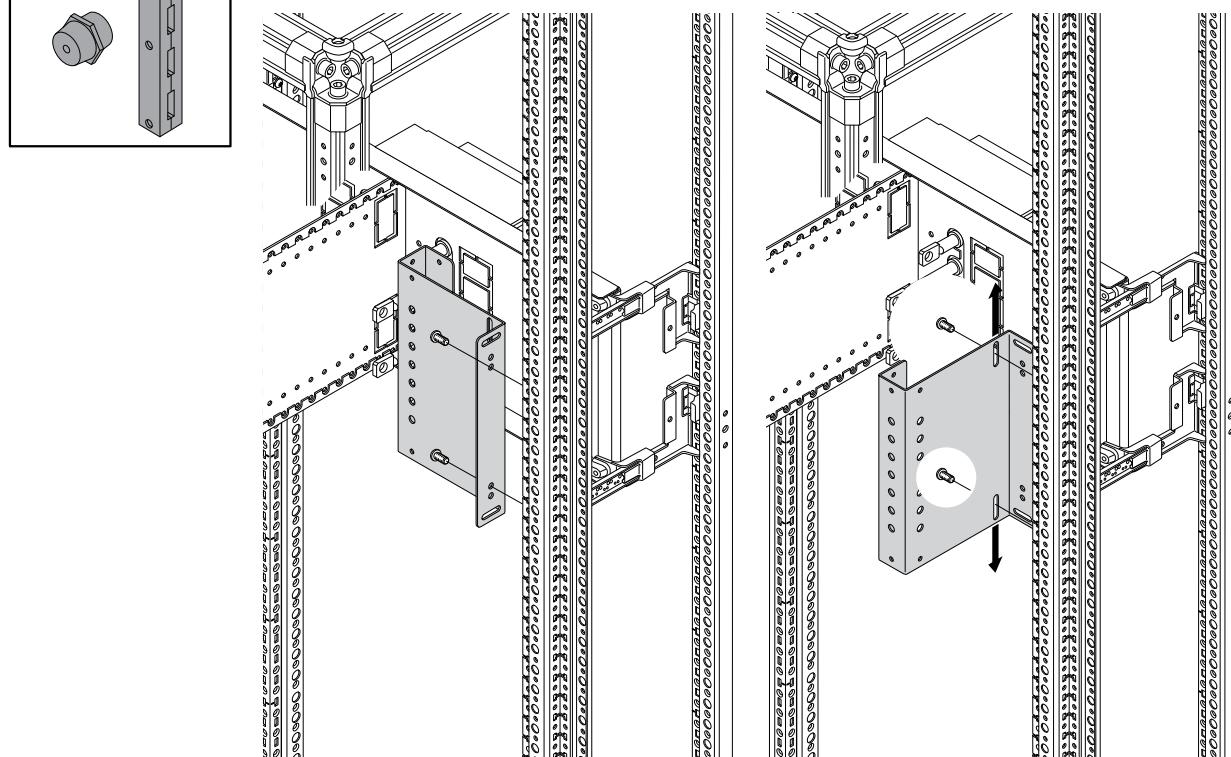
4x M6x10 Torx 30



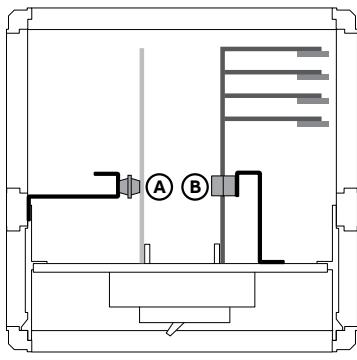
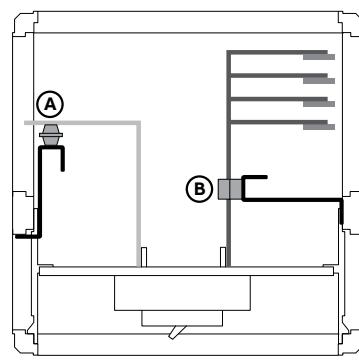
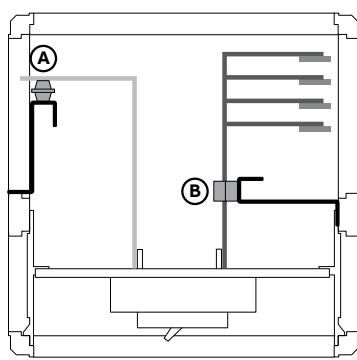
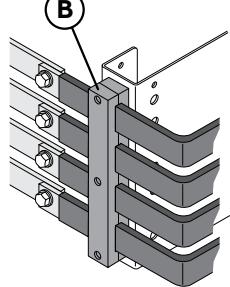
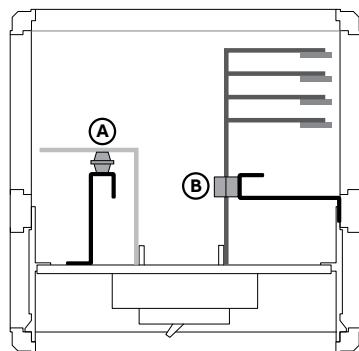
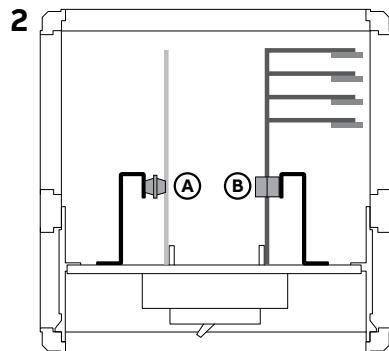
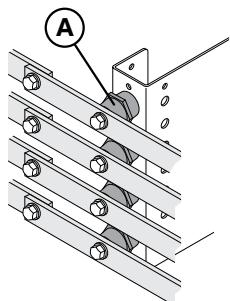
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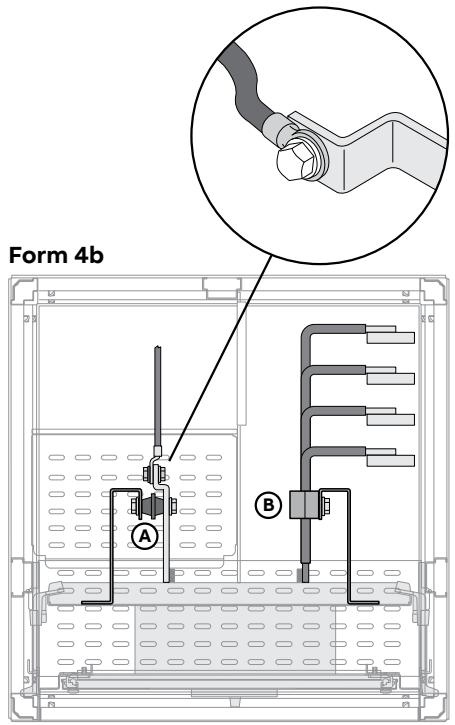
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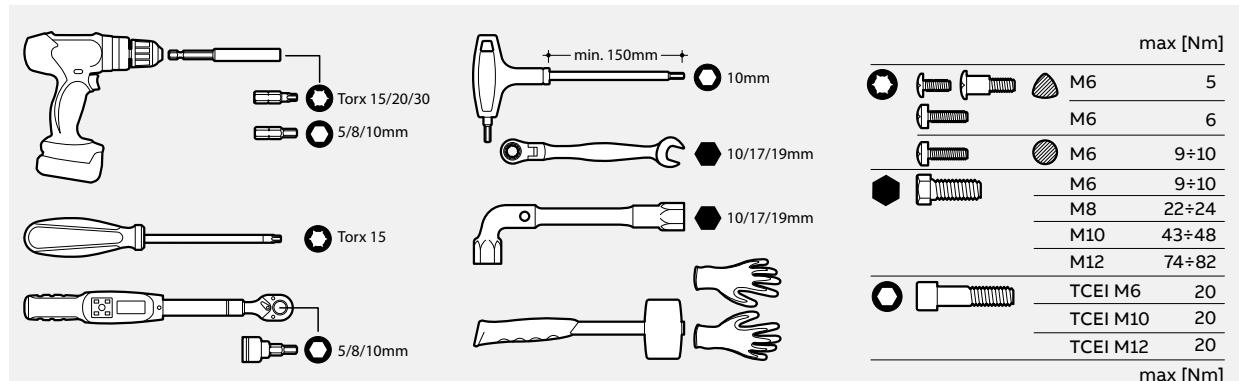
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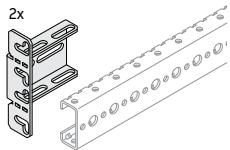
Form 4b



## Fixing brackets connection module

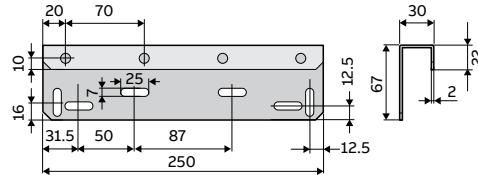


PBMC0002

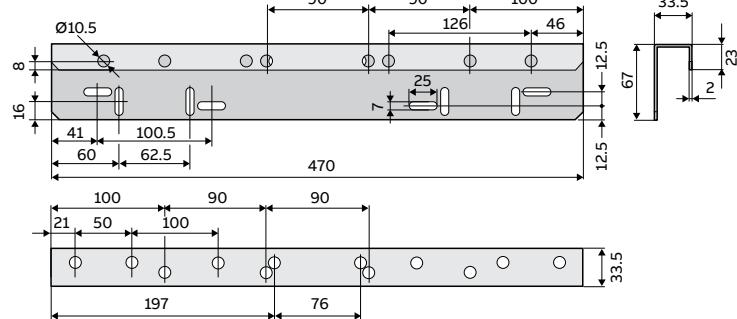


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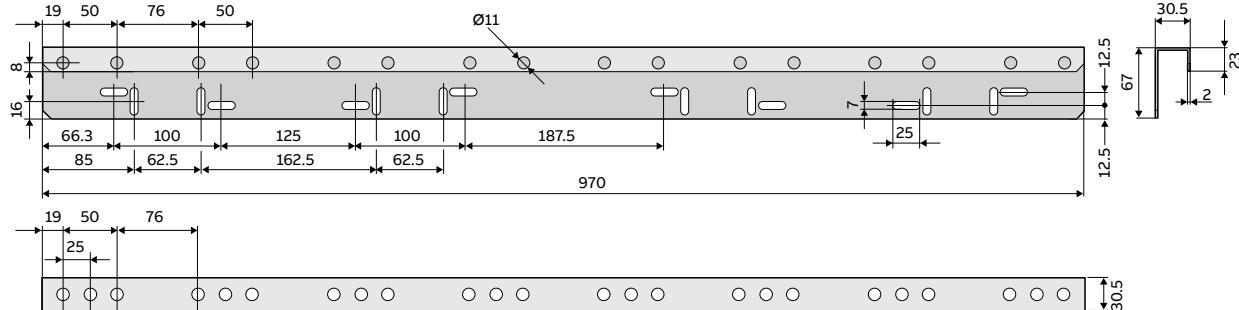
PBBE0712 (Tmax T6-T7, Emax E1.2 - 3/4P)



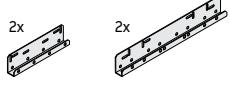
PBBE2242 (Emax E2.2 - E4.2 - 3/4P)

PCRS...  
PCRM....

PBBE0062 (Emax 6.2 - 3/4P)

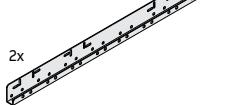


PBBE0712 PBBE2242

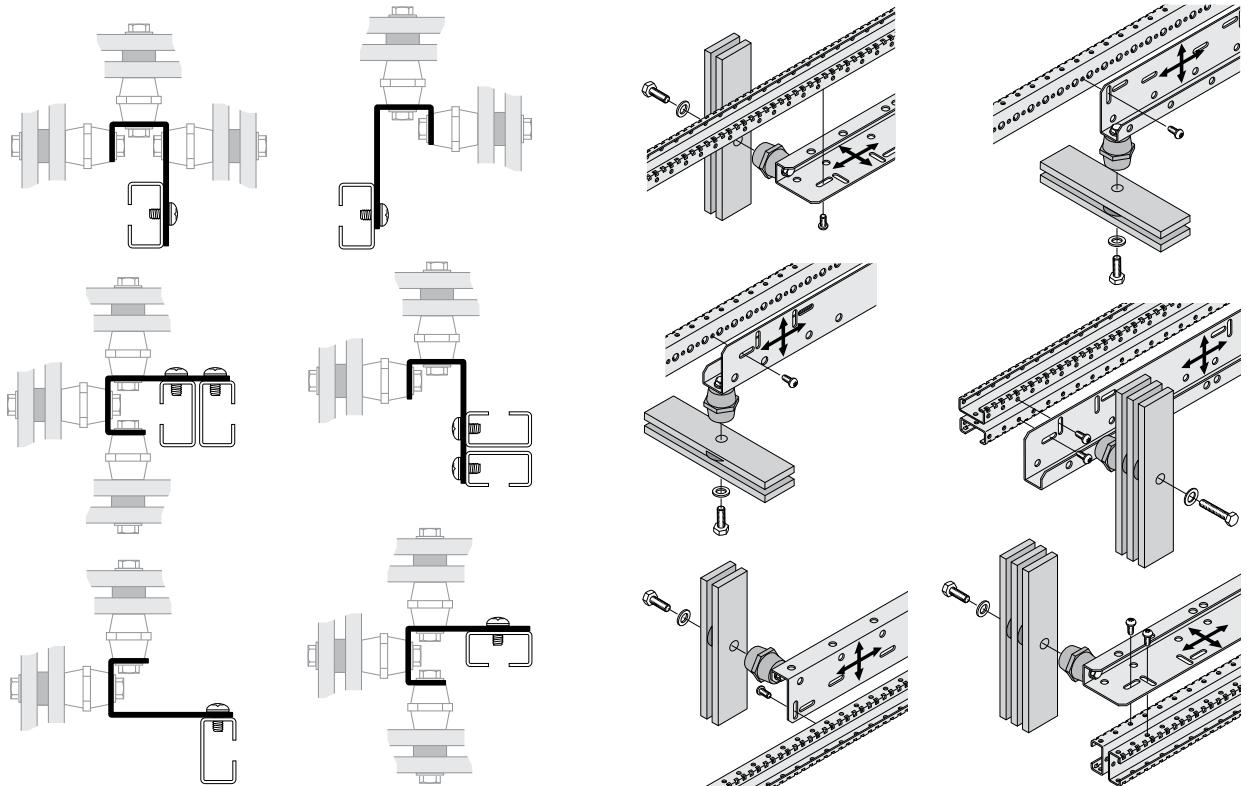


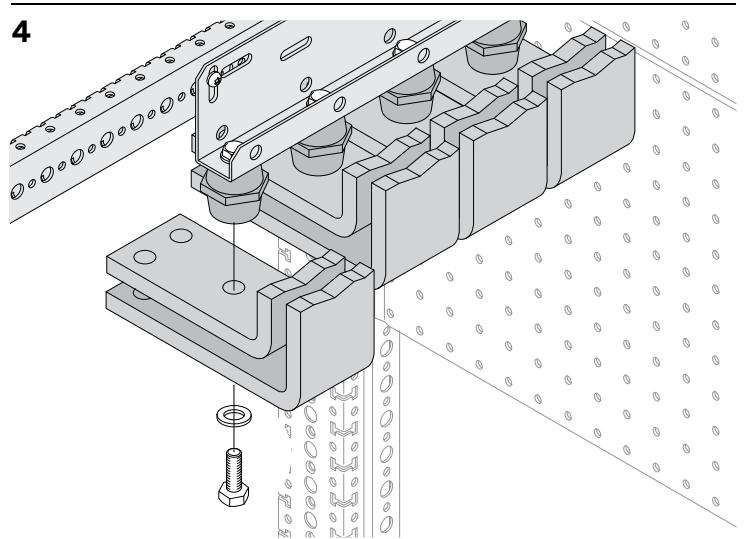
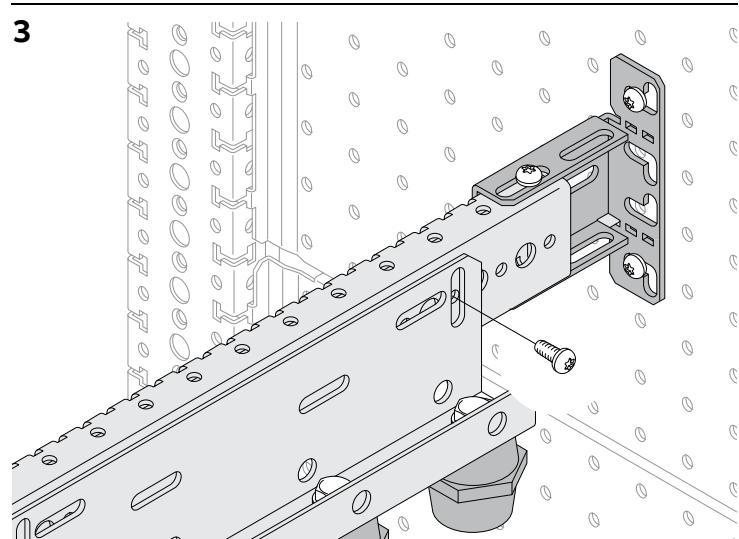
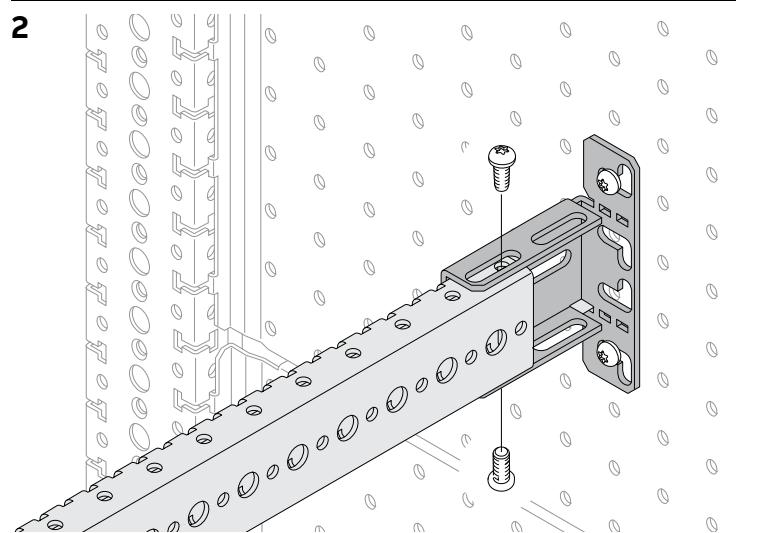
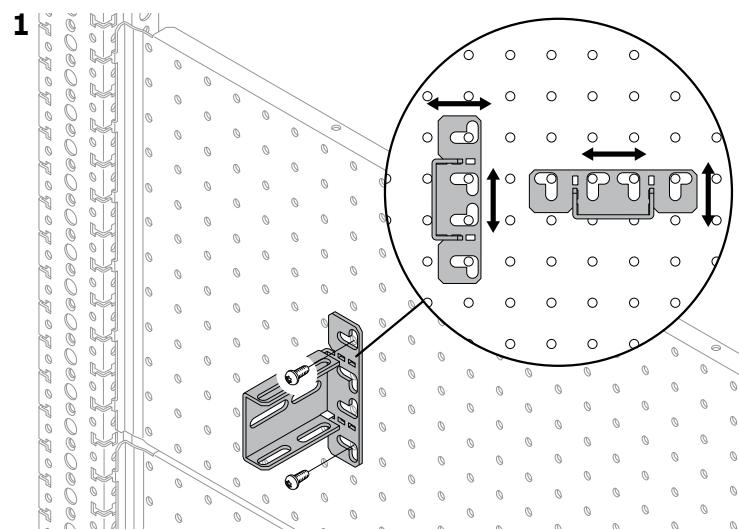
4x M6x10 Torx 30

PBBE0062

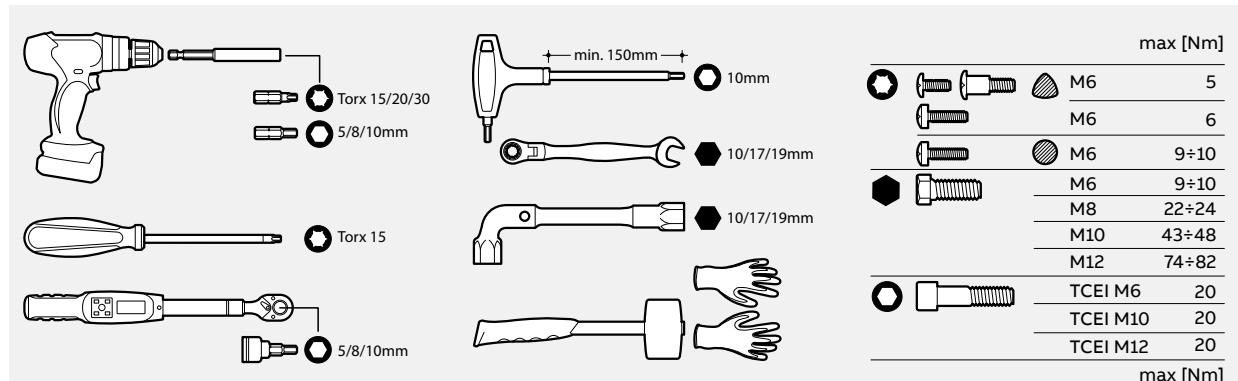


6x M6x10 Torx 30

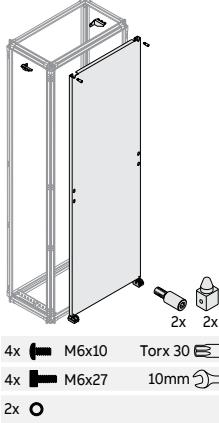




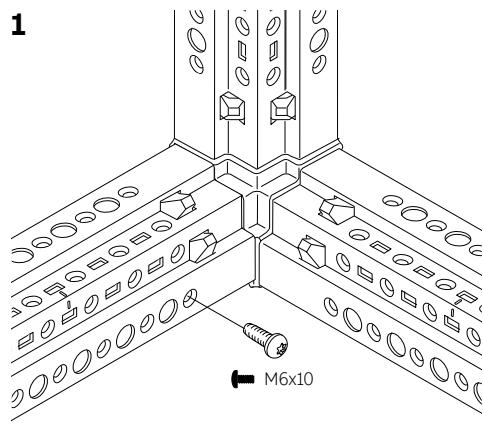
## Mounting plate



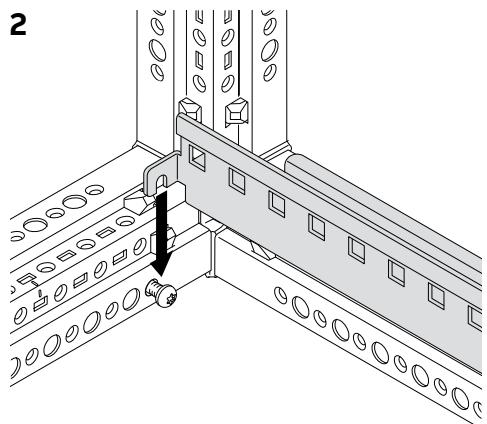
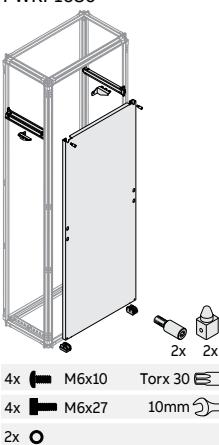
PWRP....



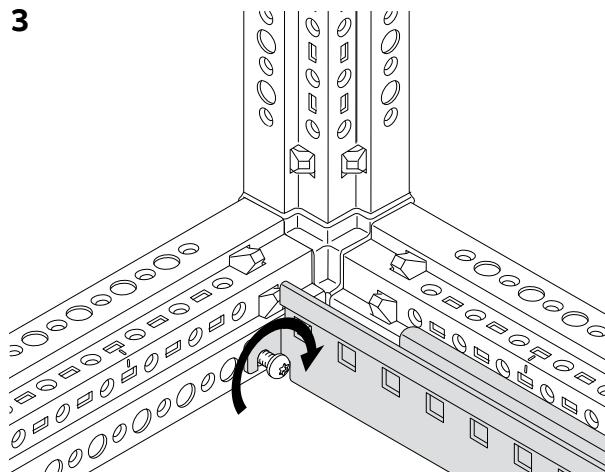
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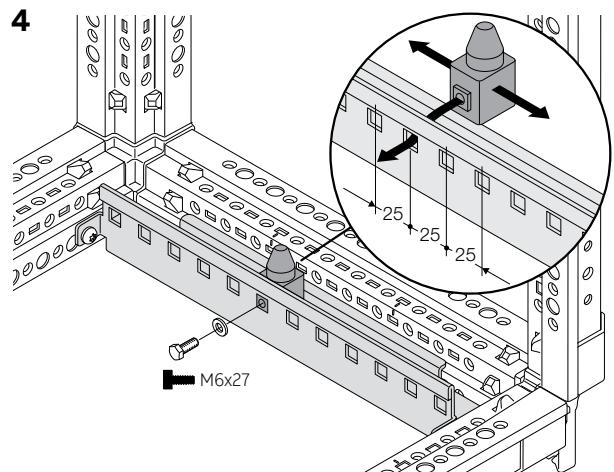
2

PWRP1640  
PWRP1660  
PWRP1680

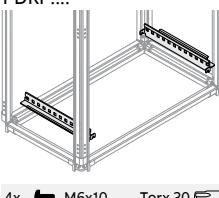
3



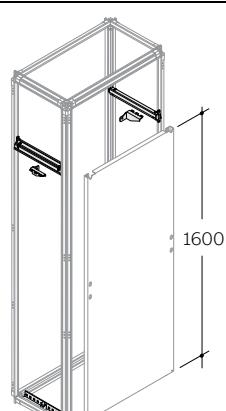
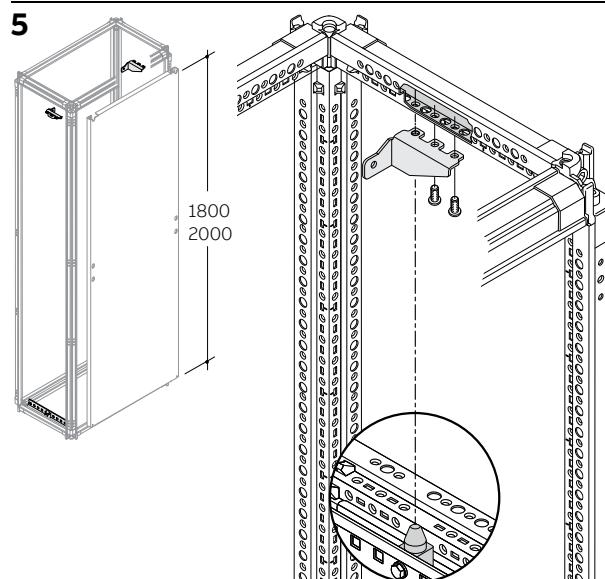
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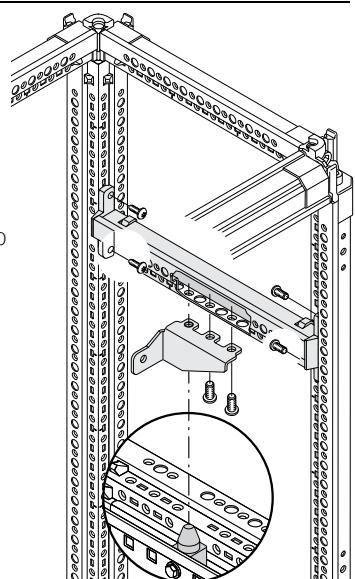
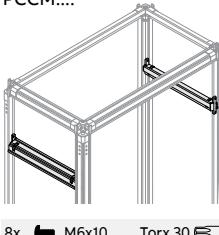
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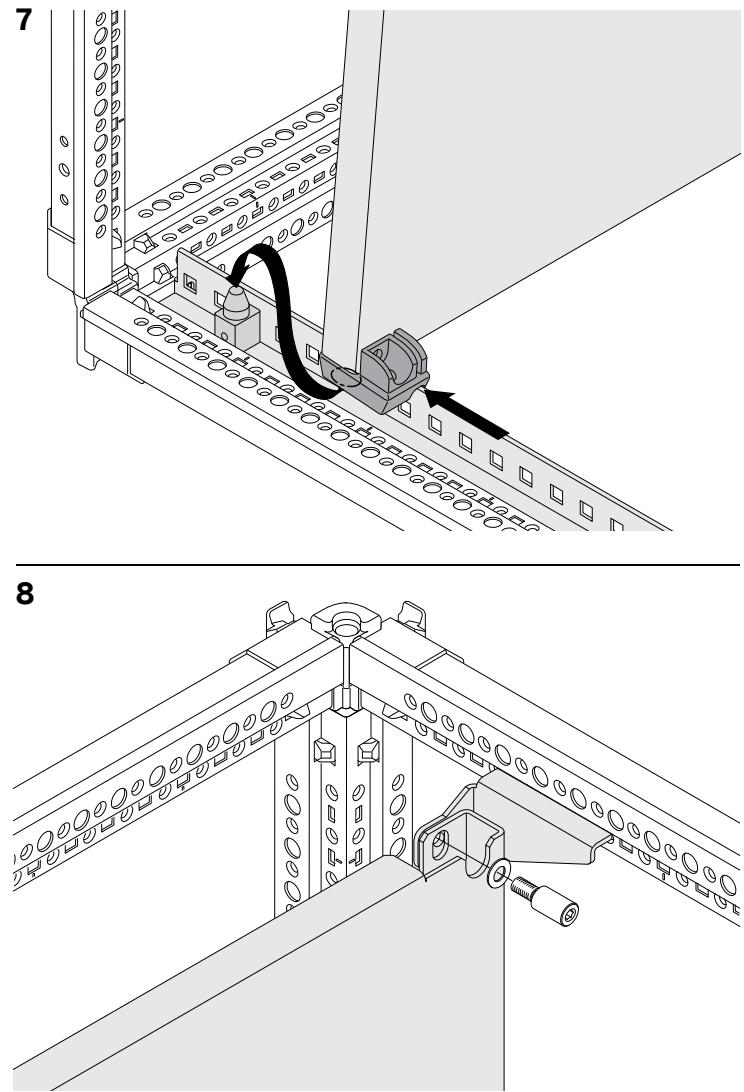
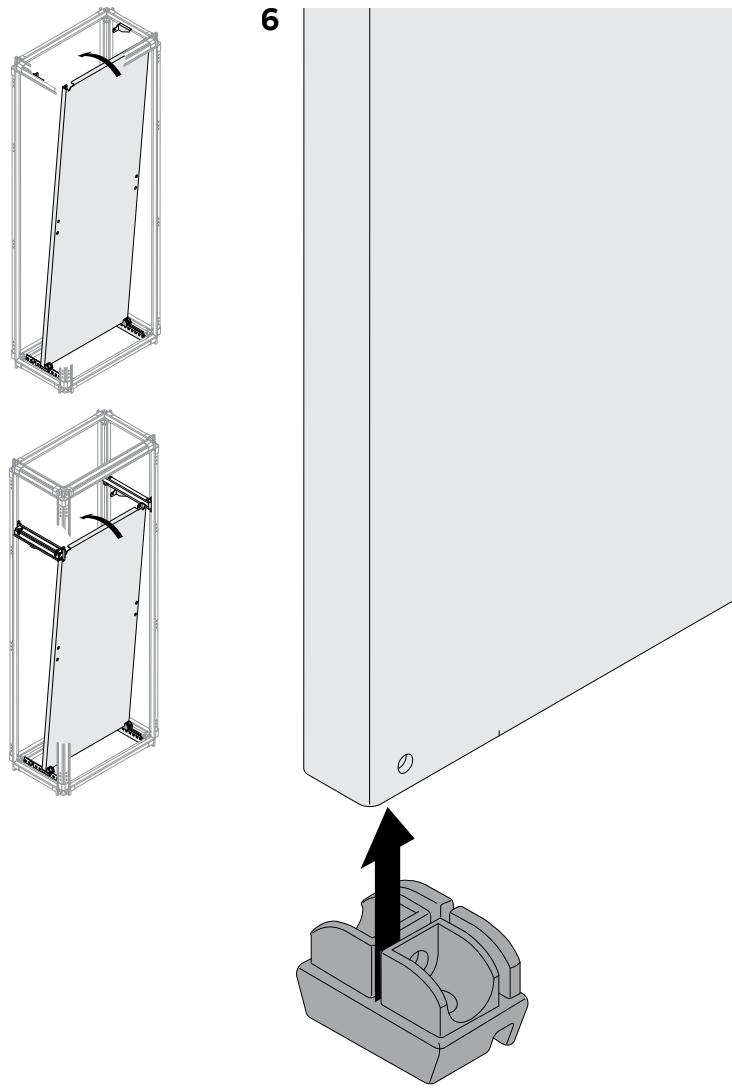


5

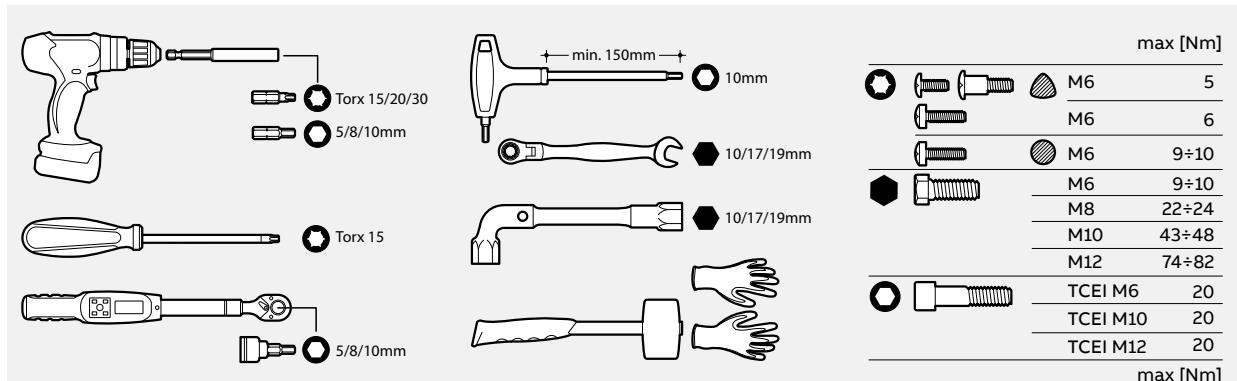


PCCM....

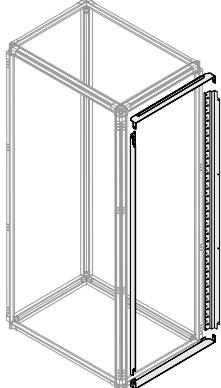




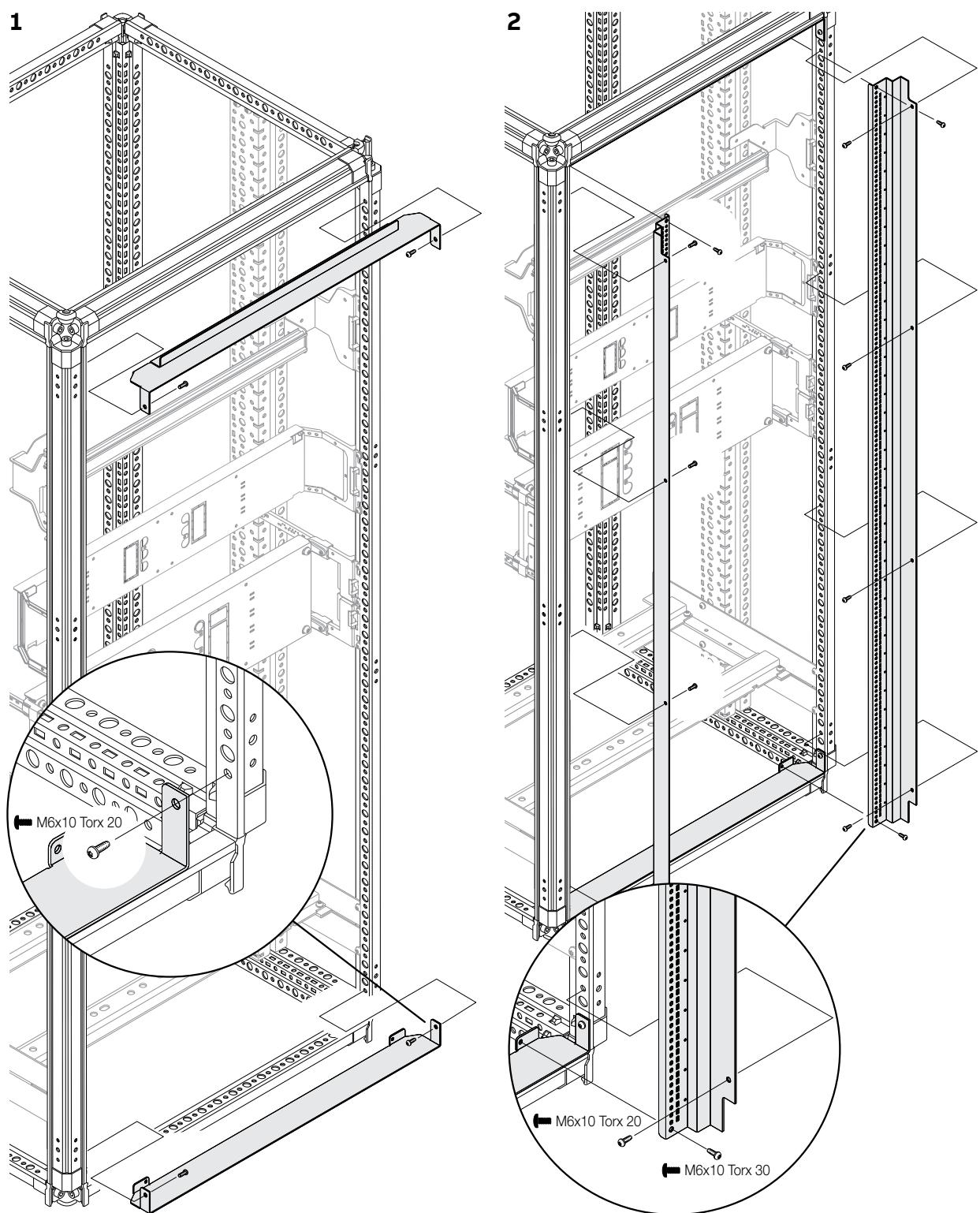
## Fixed frame for panels



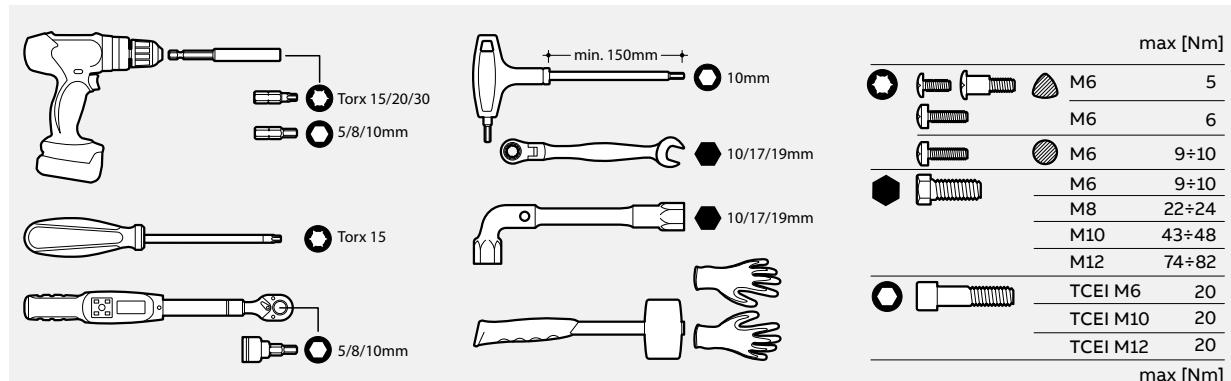
PFPF....



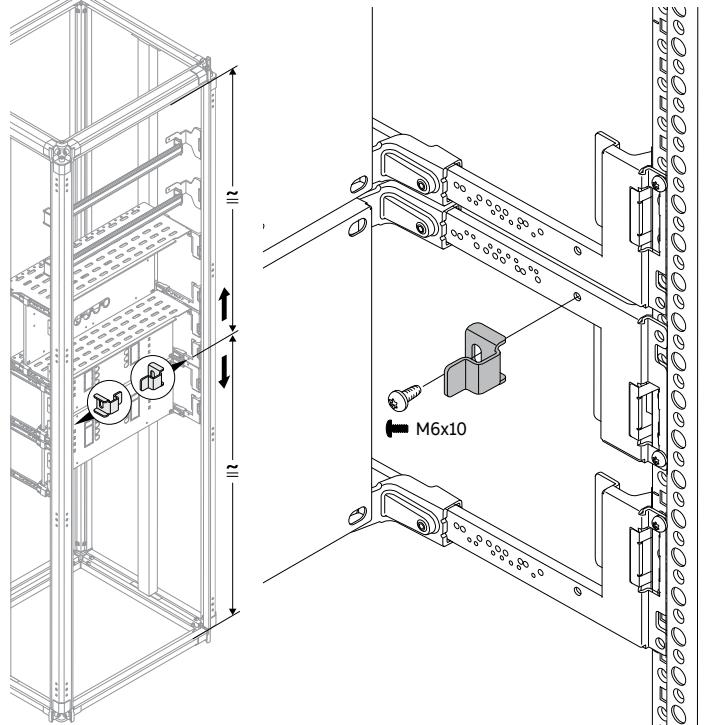
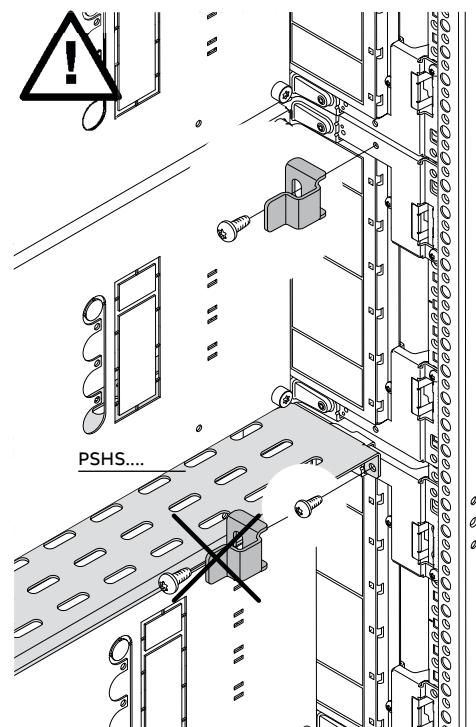
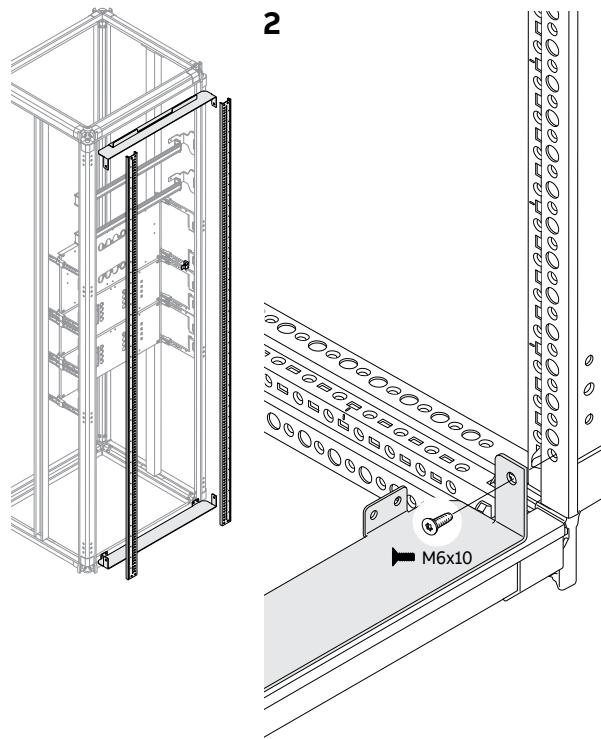
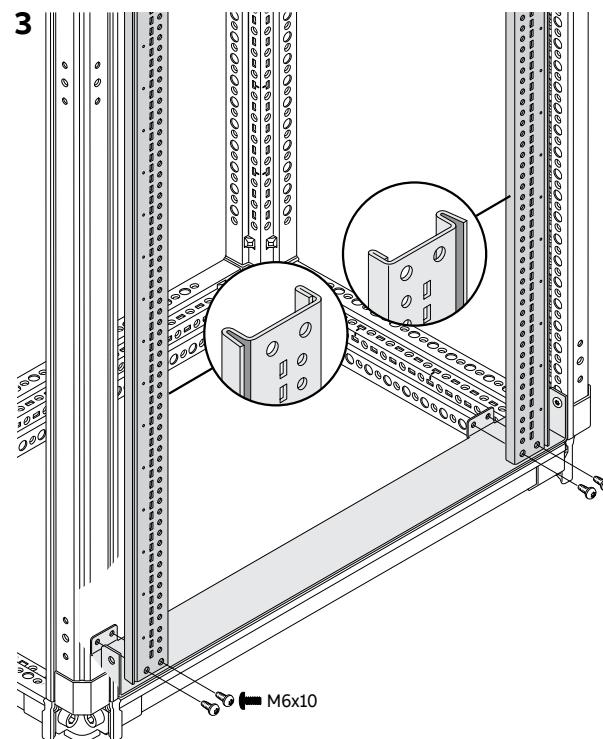
4x M6x10 Torx 30  
12x M6x10 Torx 20

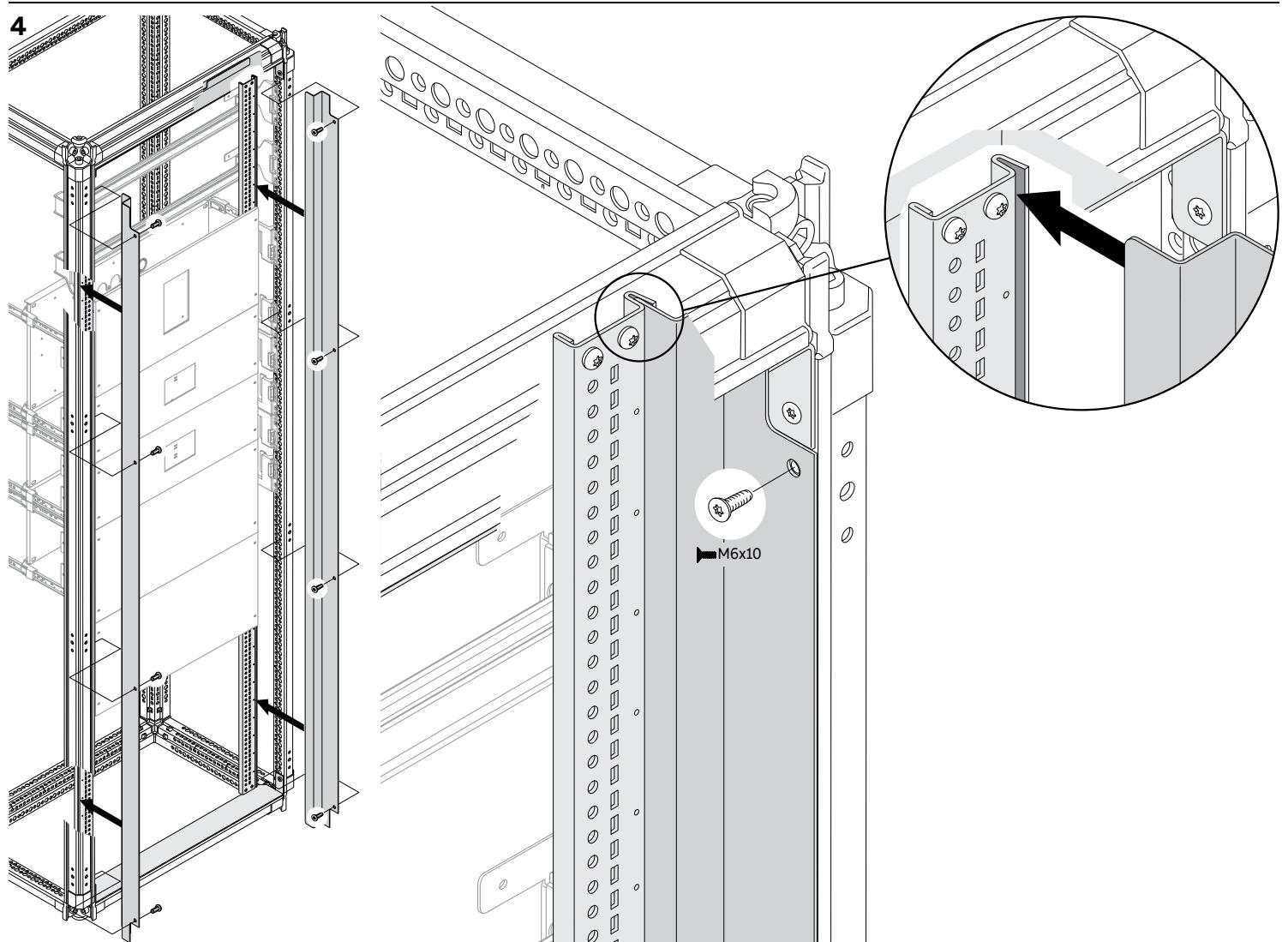


## Special fixed frame for panels

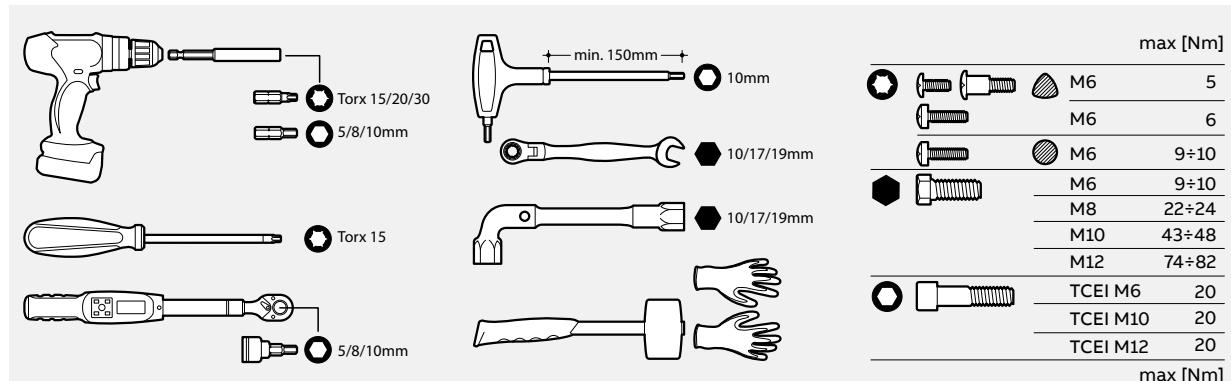


PFFA....

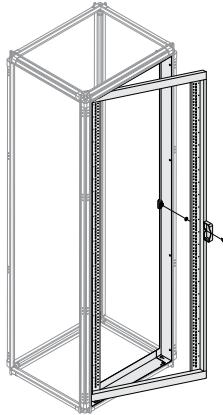
**1 Segregation Form 1****Segregation Form 2a 3a****2****3**



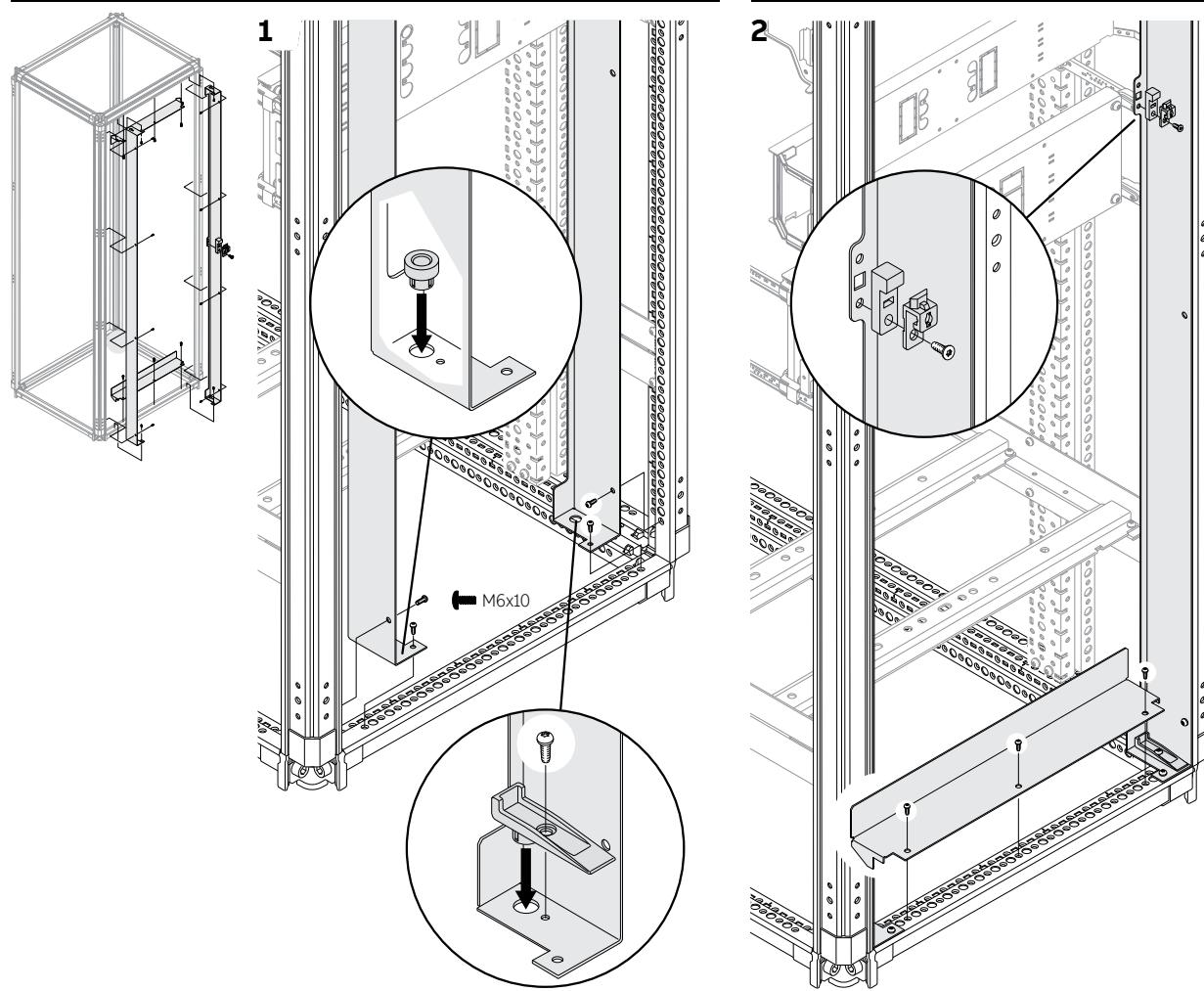
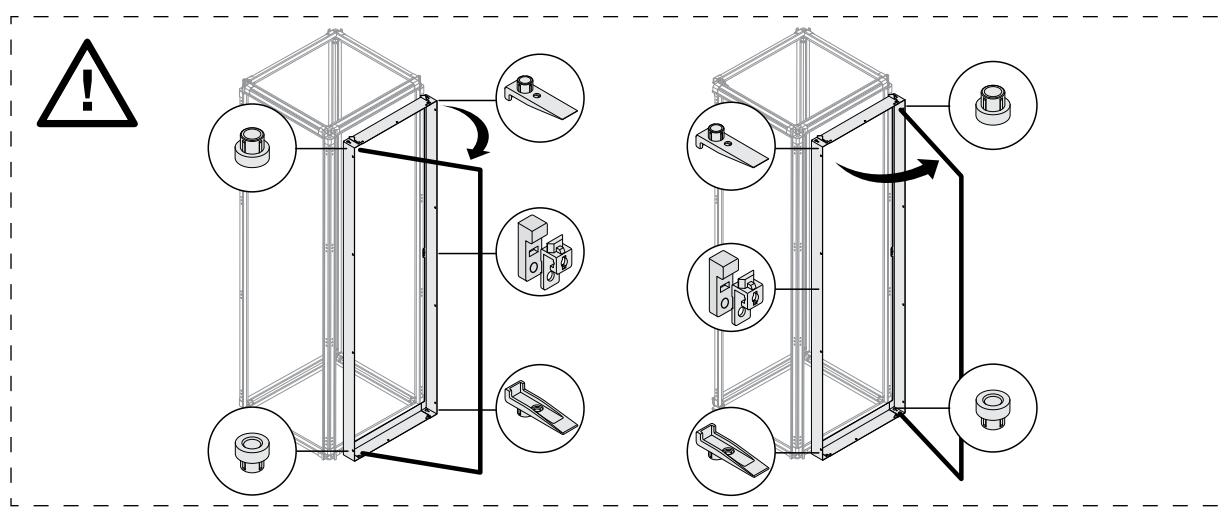
## Revolving frame for paneling

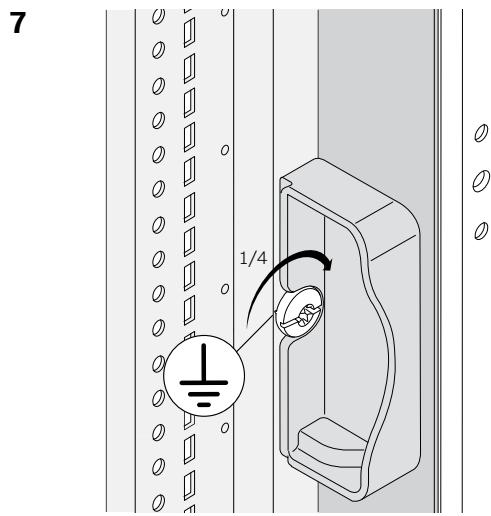
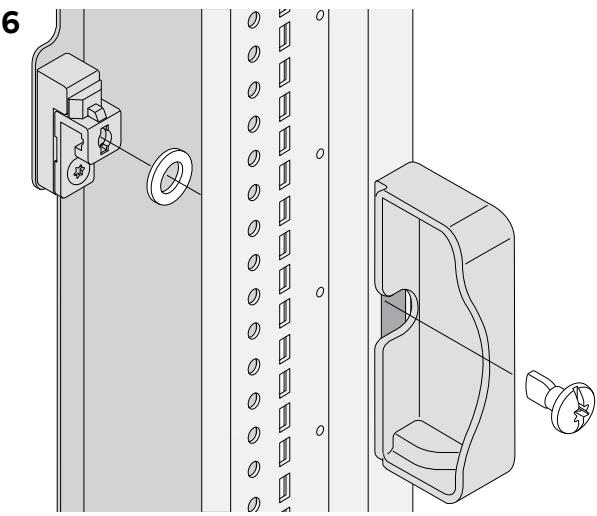
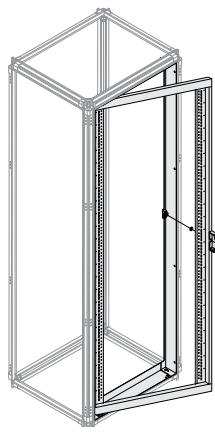
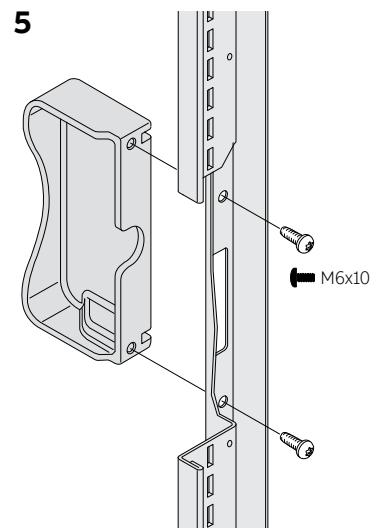
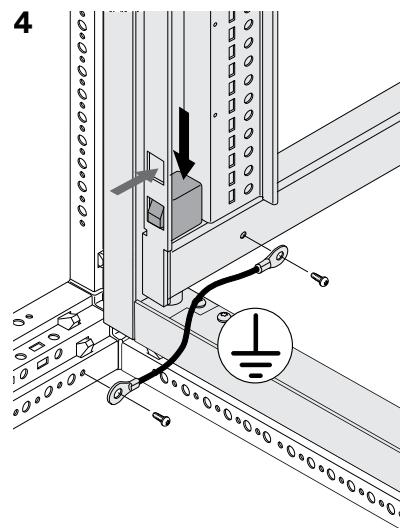
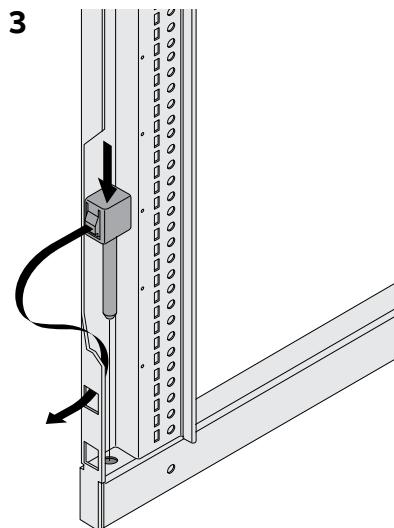
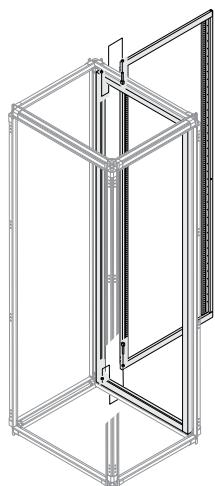


PFPS....

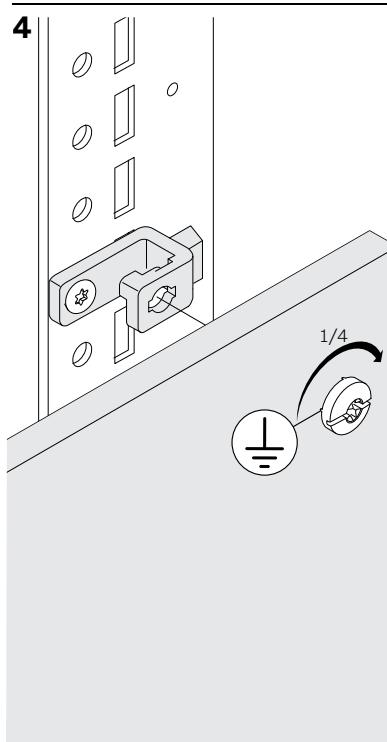
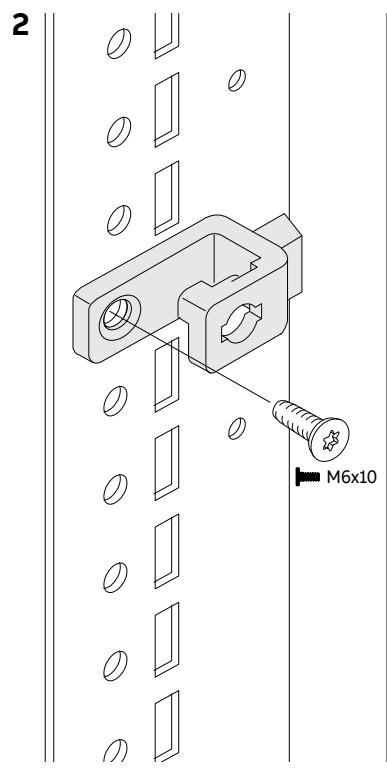
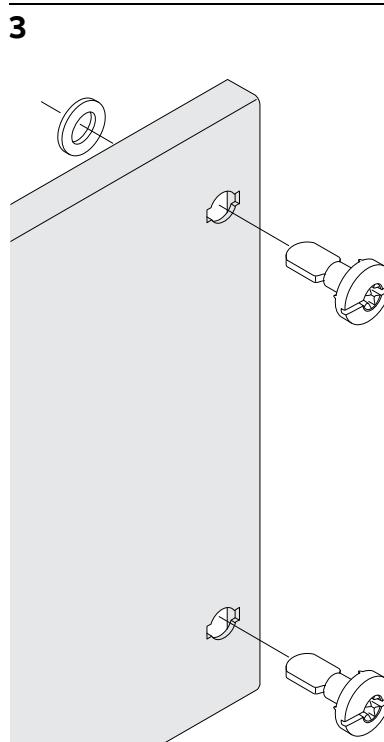
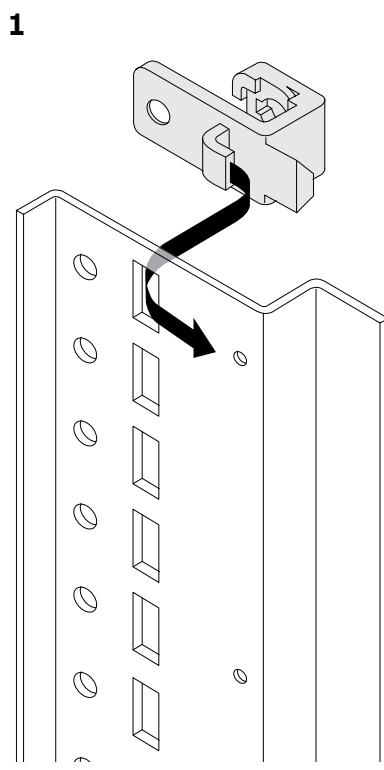
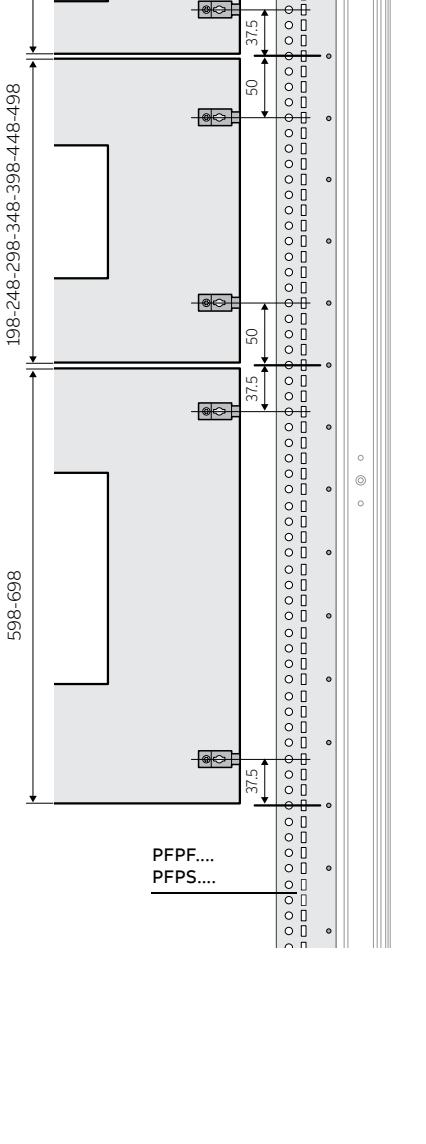
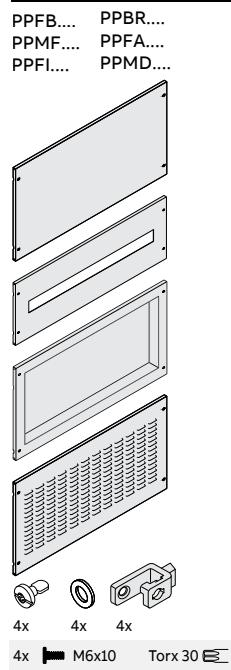
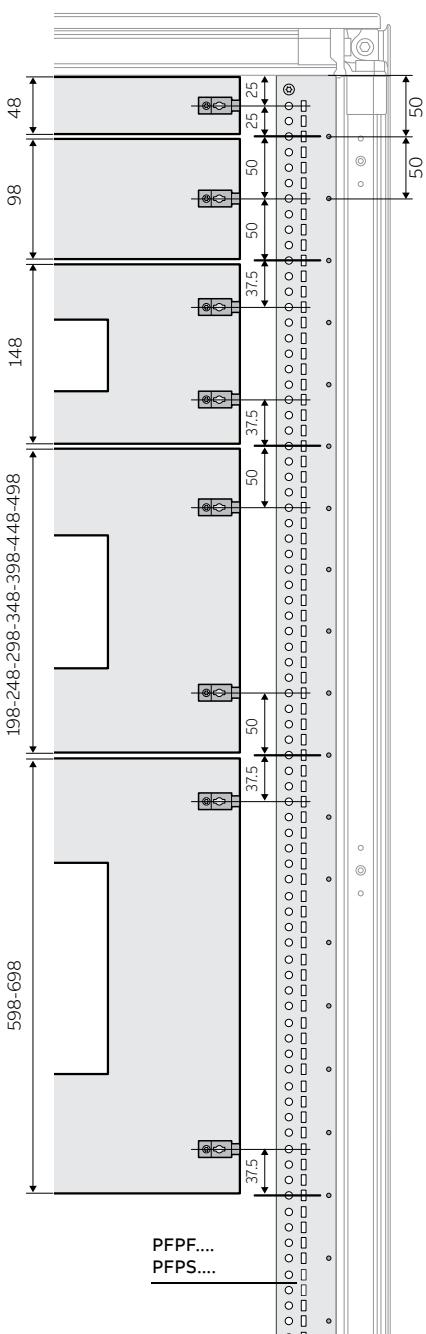
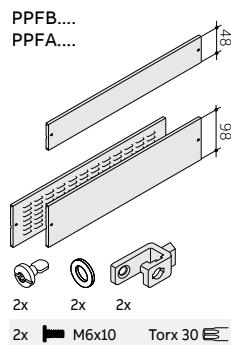
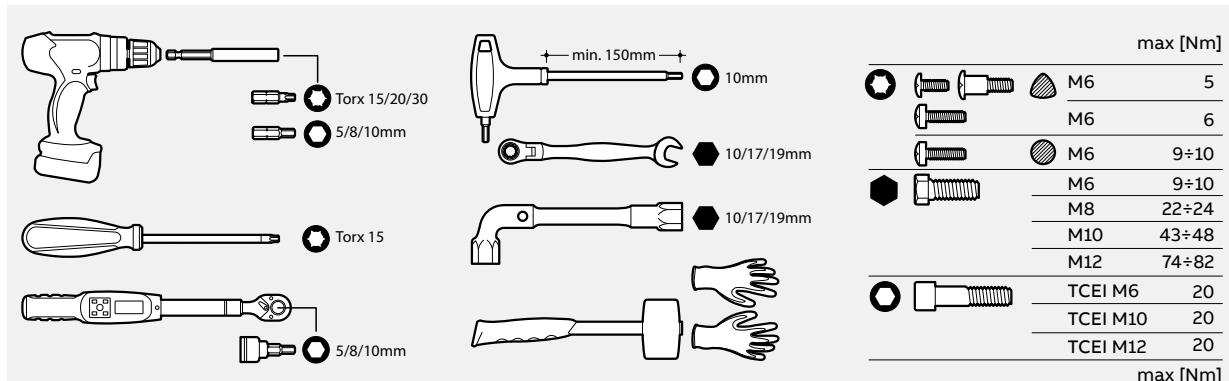


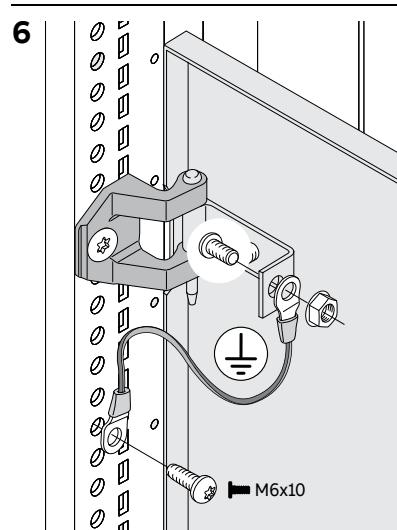
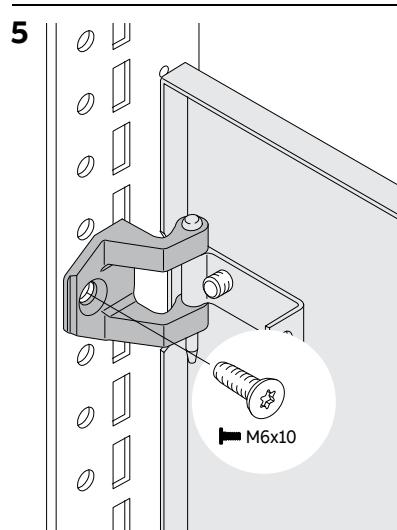
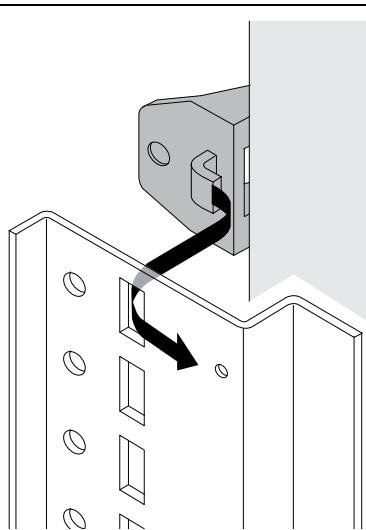
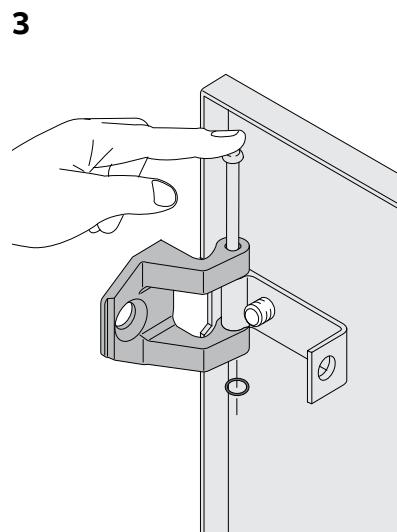
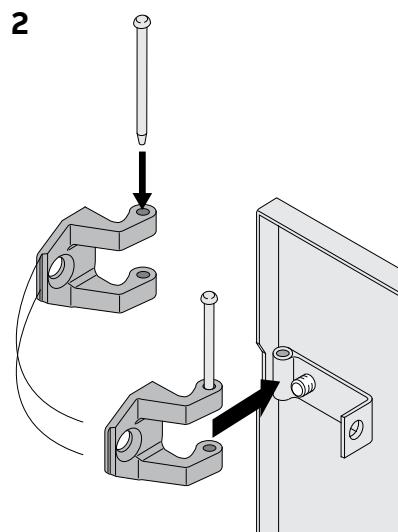
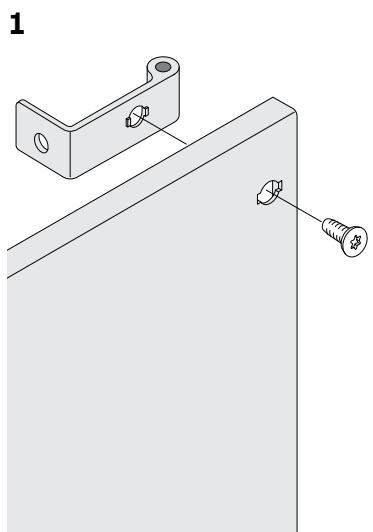
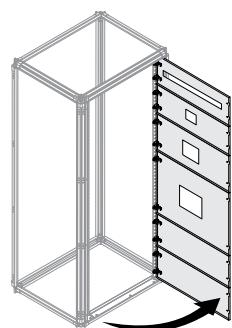
- 3
- 2x 1x 1x 2x
  - 2x 1x 1x
  - 1x M6x10 Torx 30
  - 20x M6x10 Torx 30



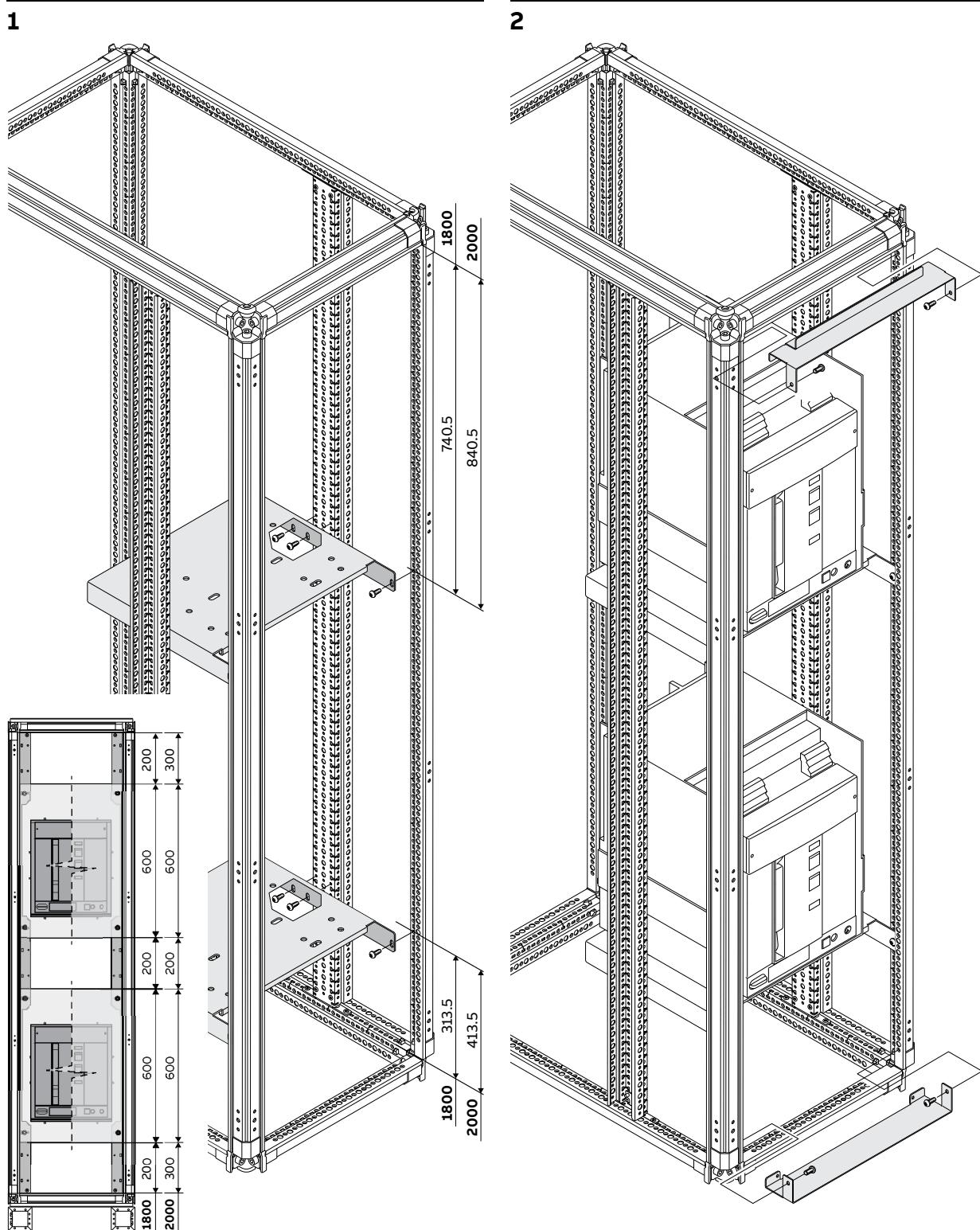
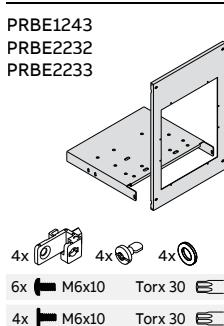
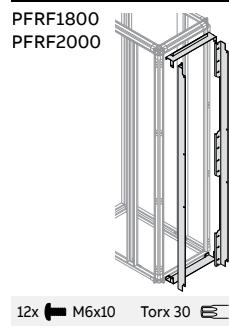
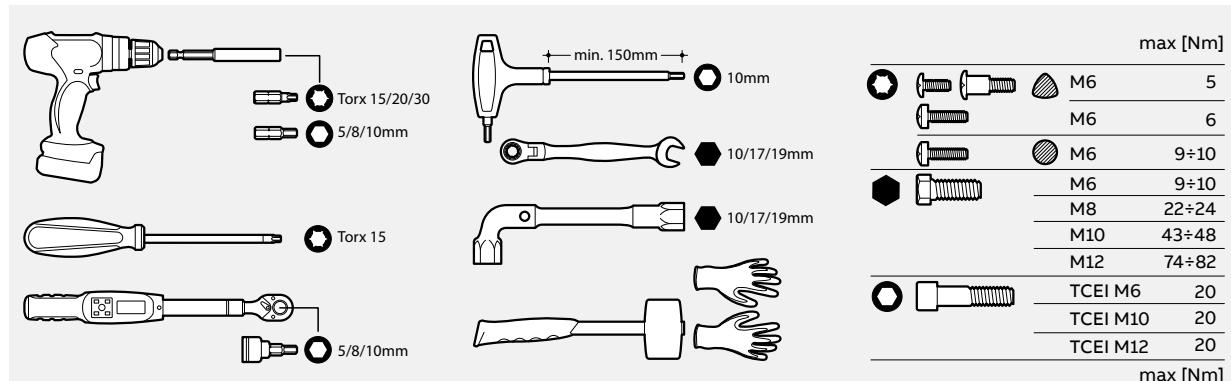


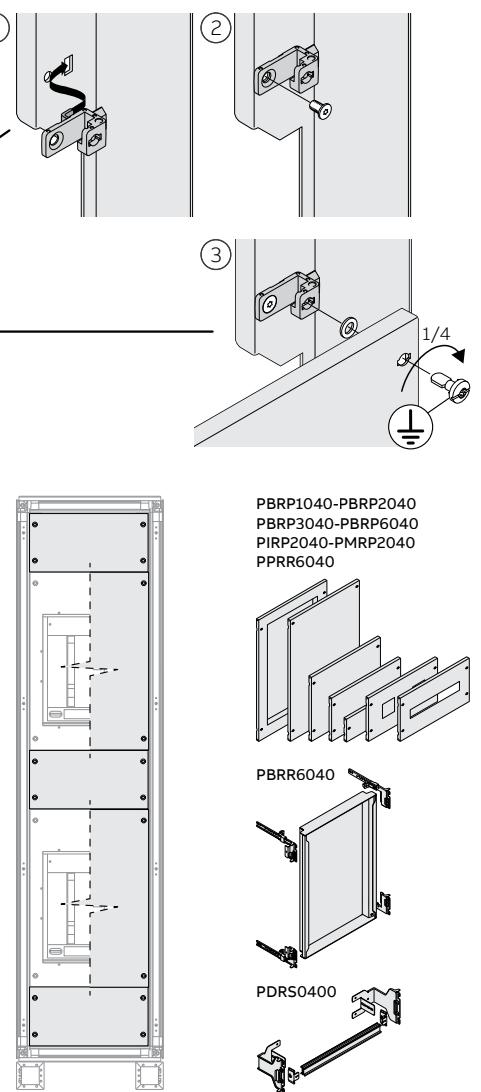
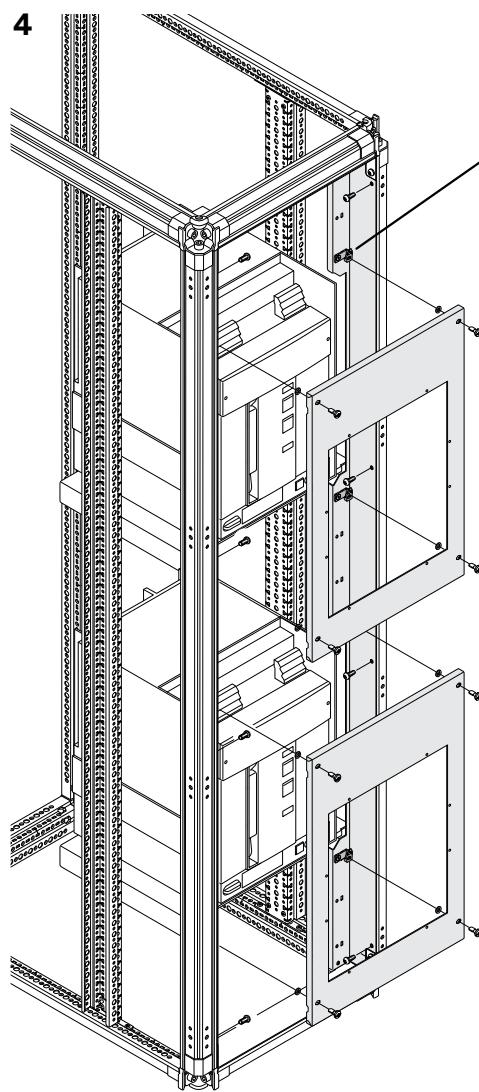
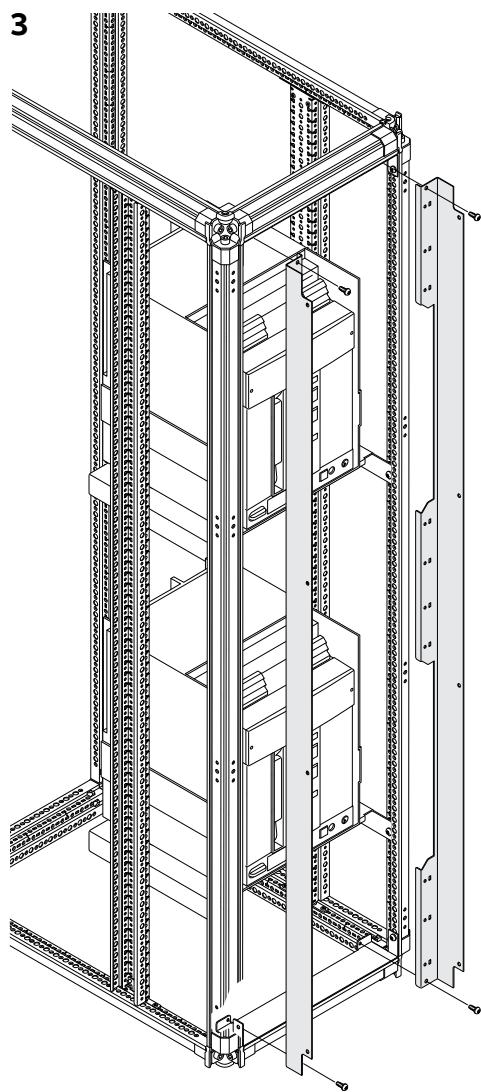
## Flat and recessed blind panels, Panels for measuring instruments, ventilated panel





## Space-saving column





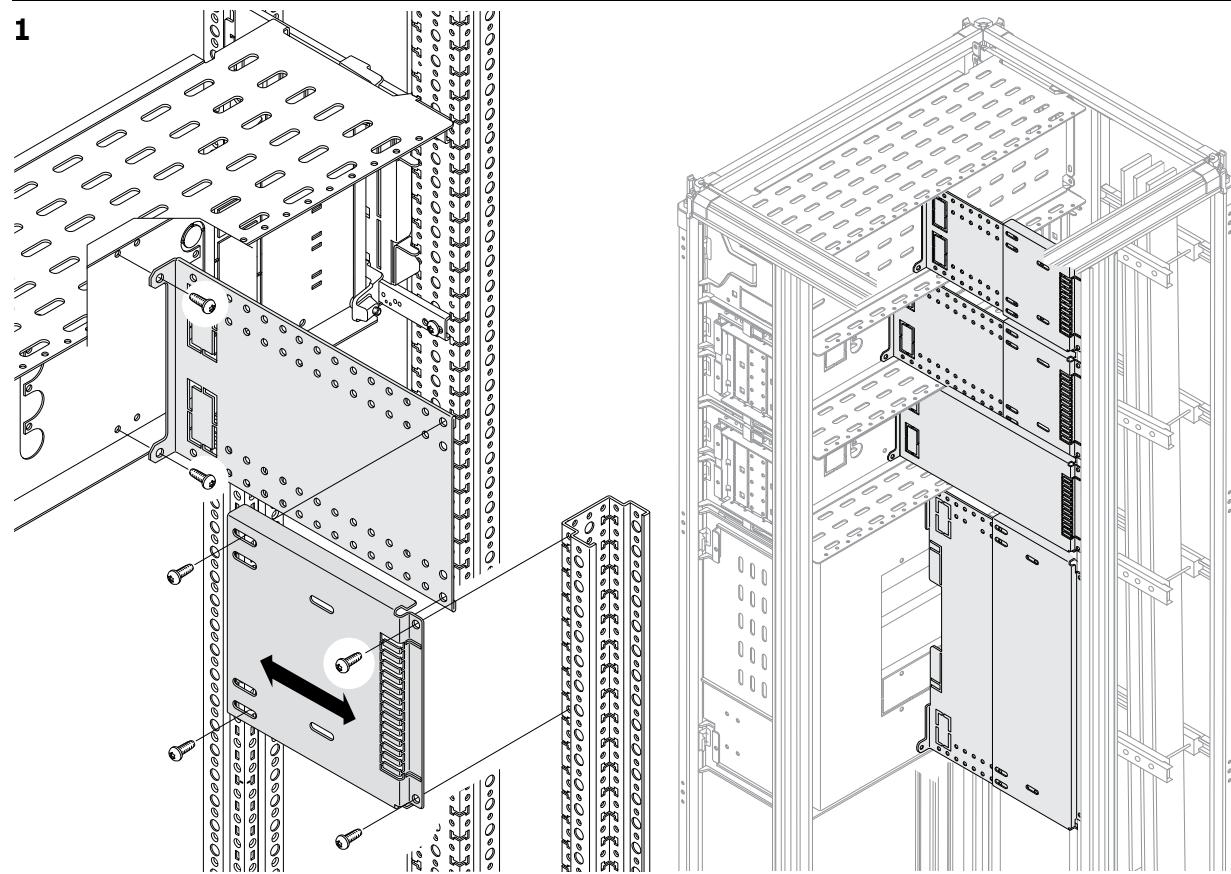
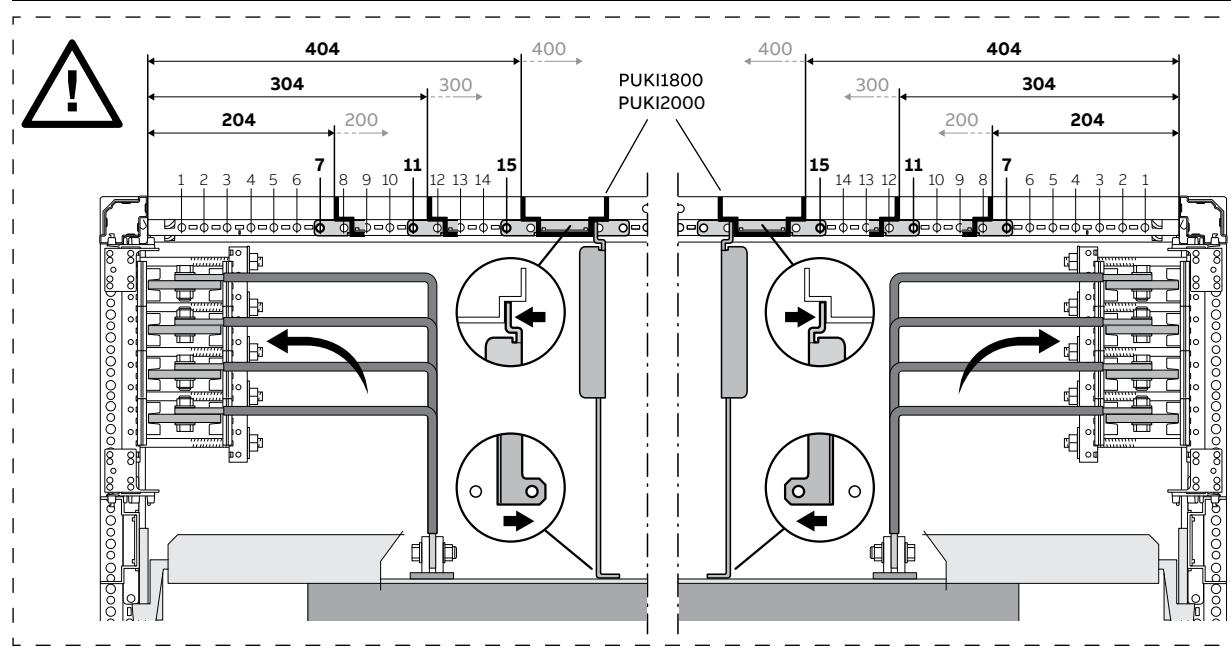
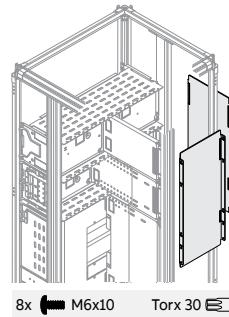
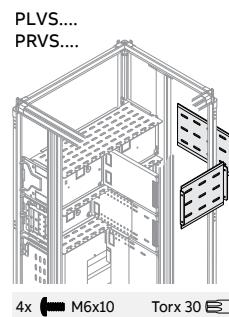
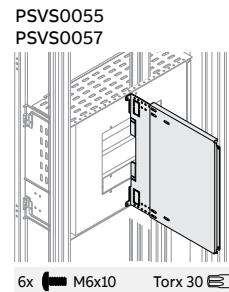
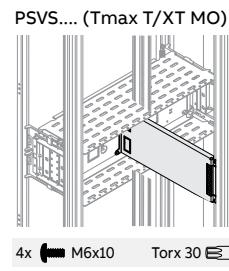
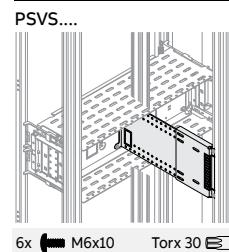
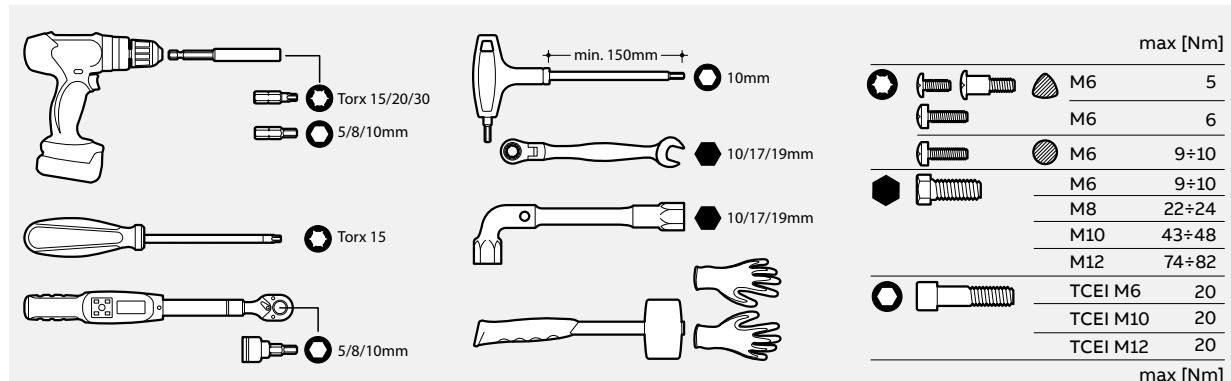


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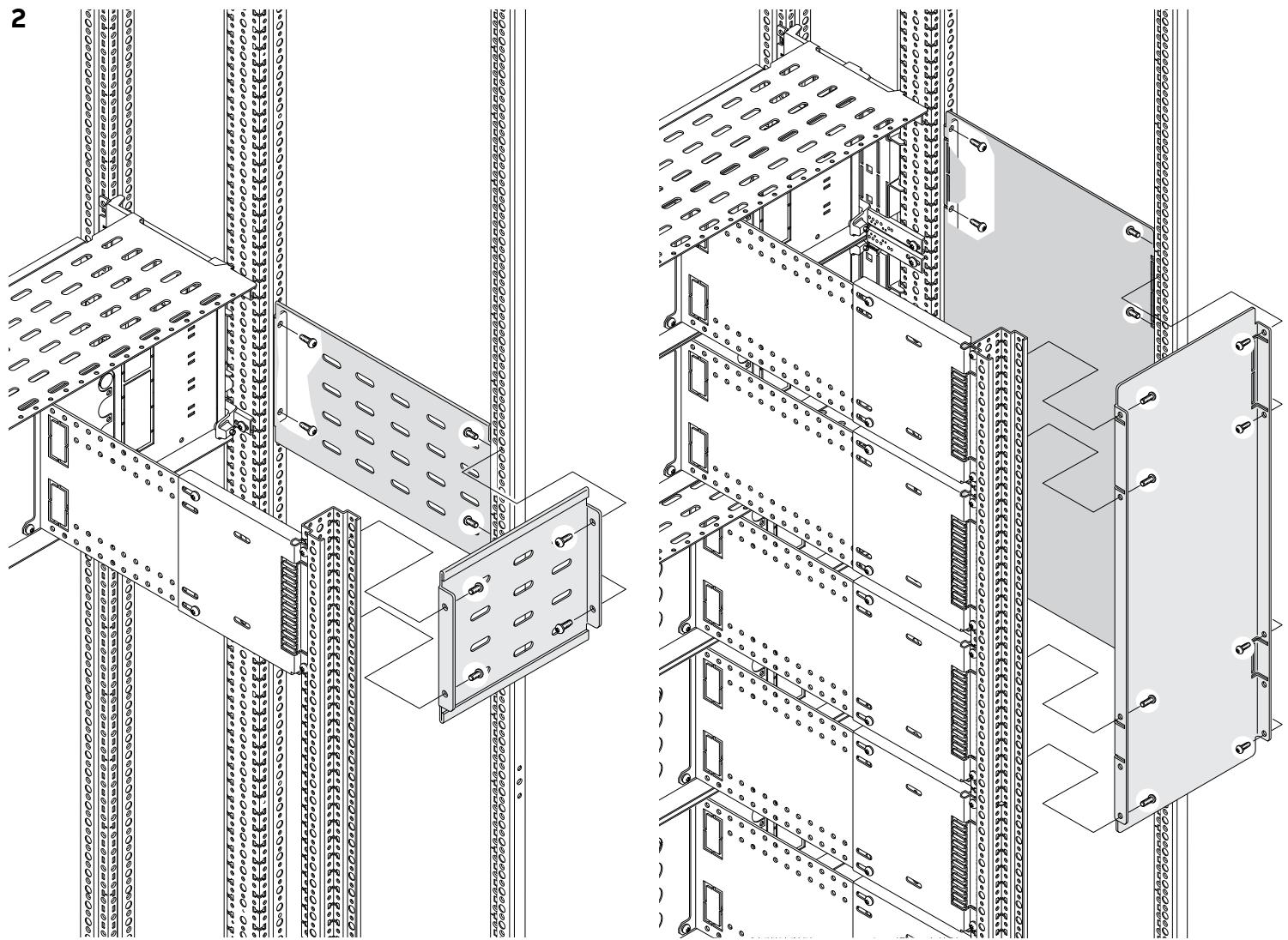
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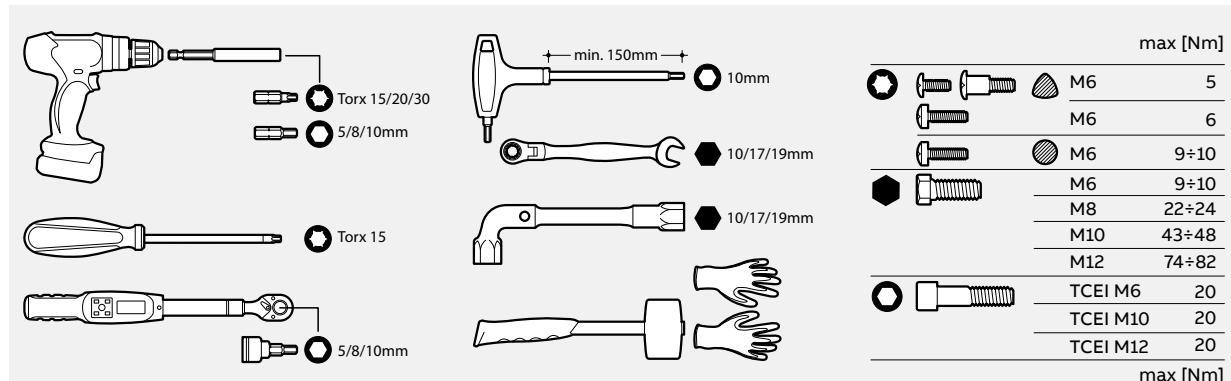
## Segregation 3b horizontal circuit-breakers



2

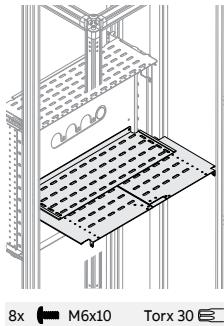


## Segregation 3b vertical circuit-breakers



### Tmax T - Tmax XT

PSHS....



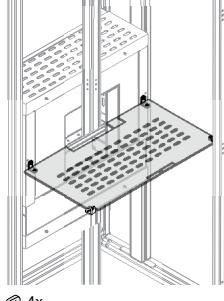
8x Torx 30

### Tmax XT - Tmax T7

Emax 2

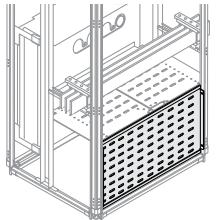
PSHS....

PSHW....

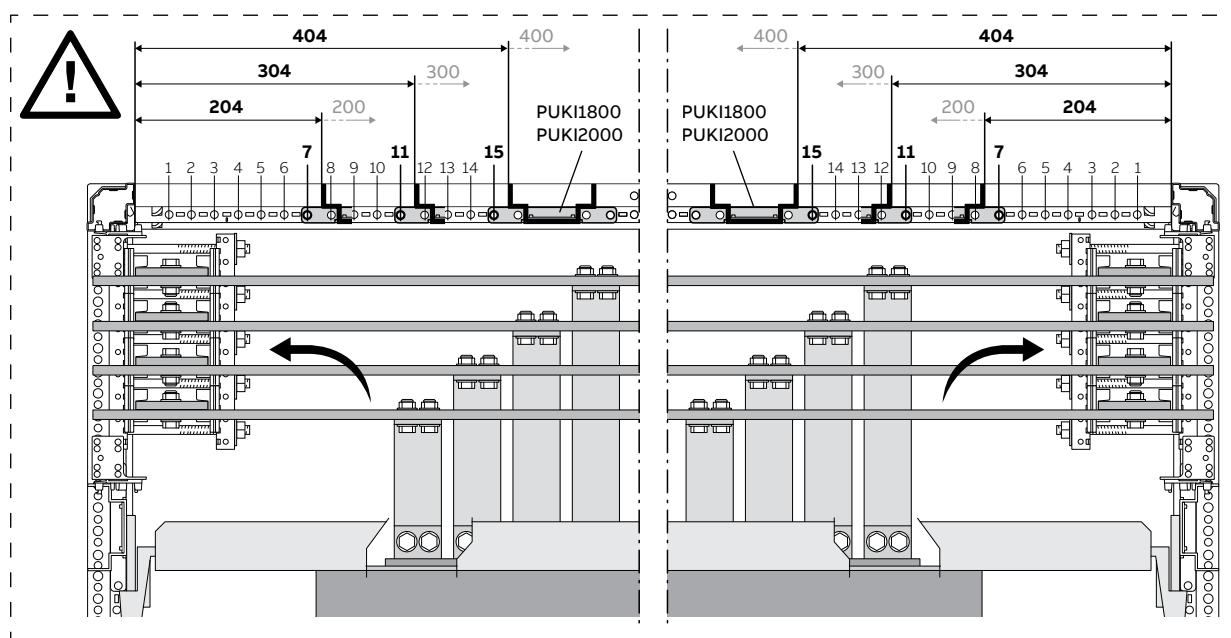


4x Torx 30

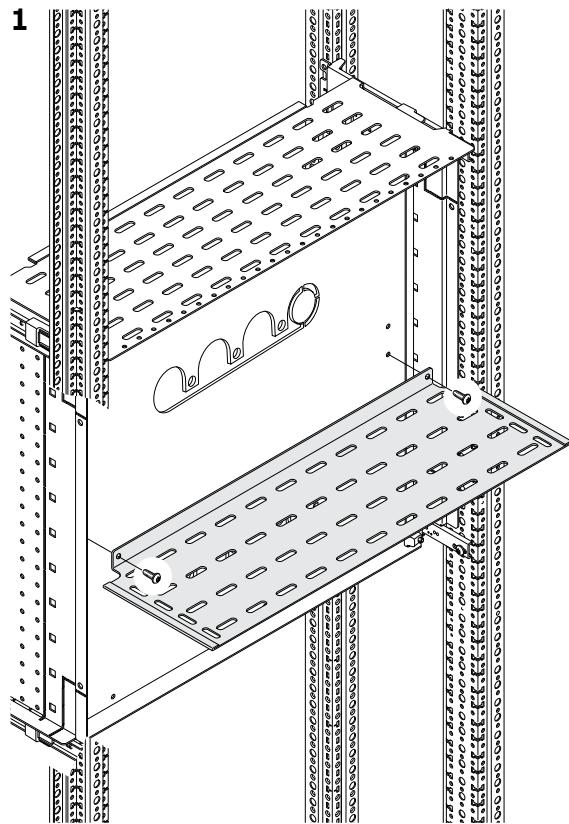
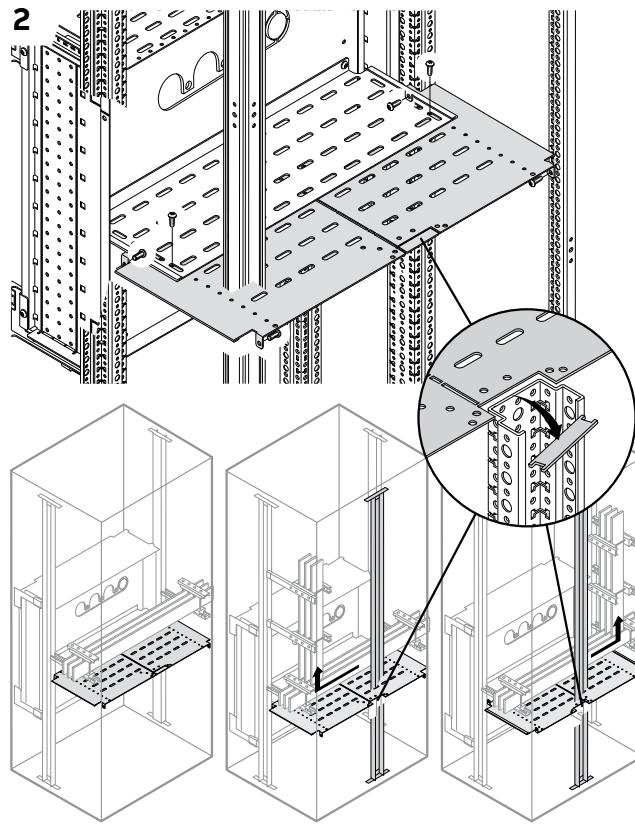
### PRVS.... PLVS....

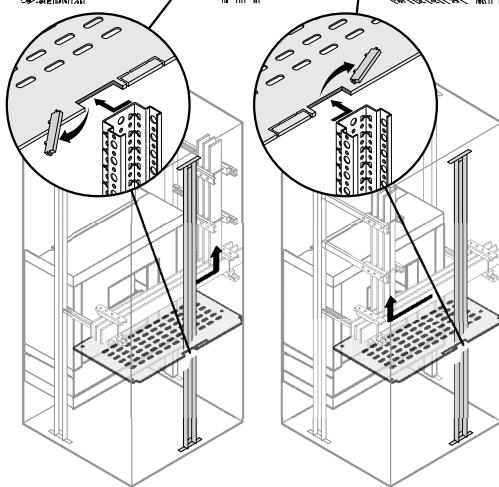
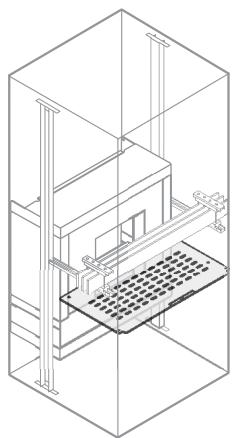
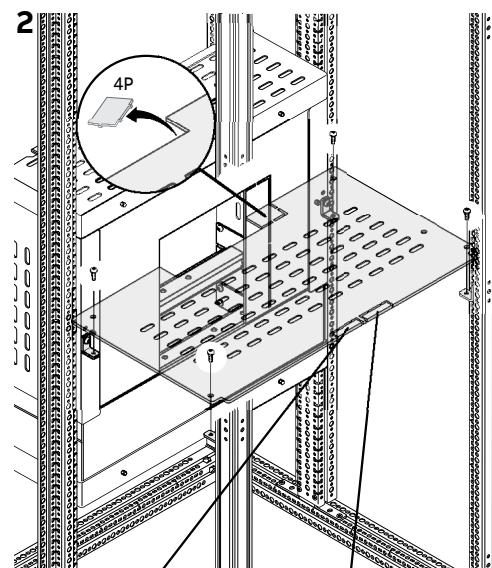
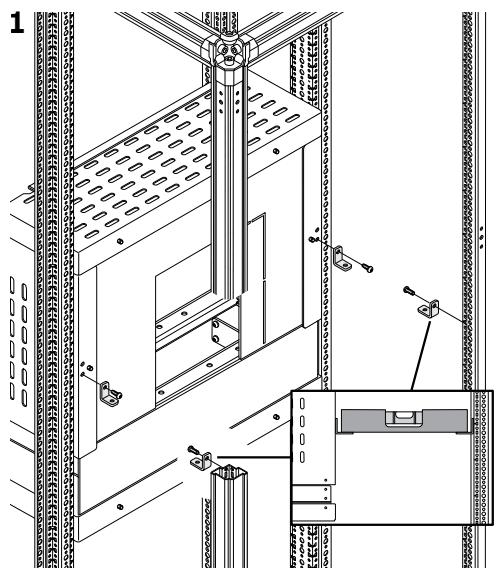
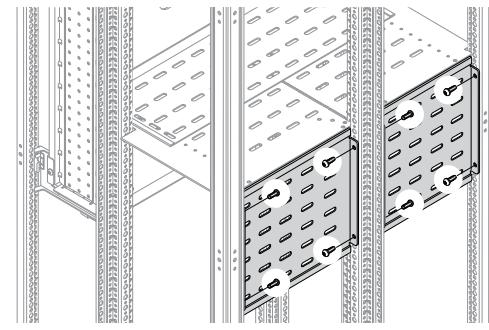
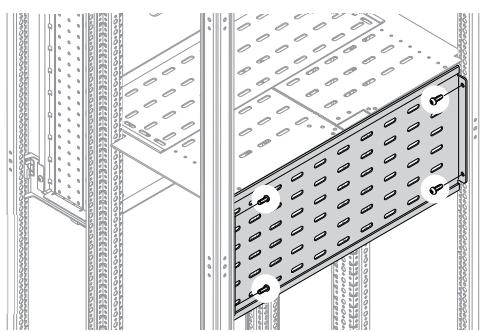
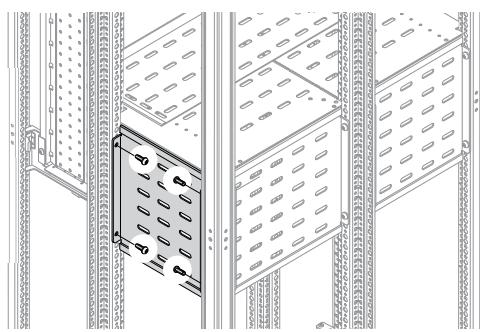


4x Torx 30

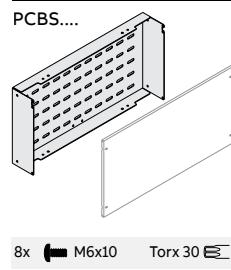
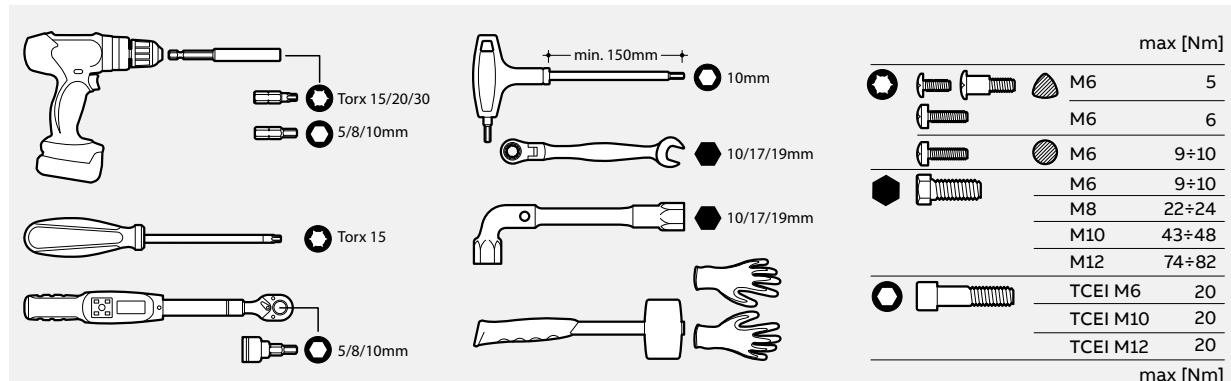


## Tmax T - Tmax XT

**1****2**

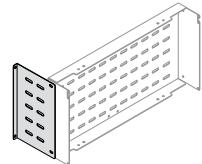
**Tmax XT7 - Tmax T7 - Emax 2****PRVS....****PLVS....**

### Segregation 3b blind compartment



#### Segregation Form 2a-3a

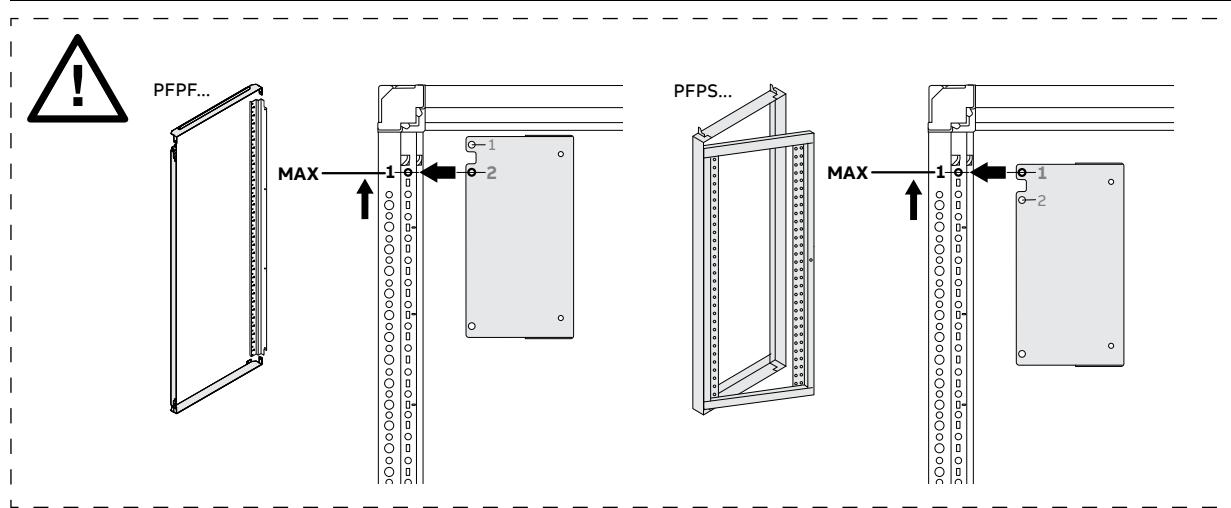
PPBS....



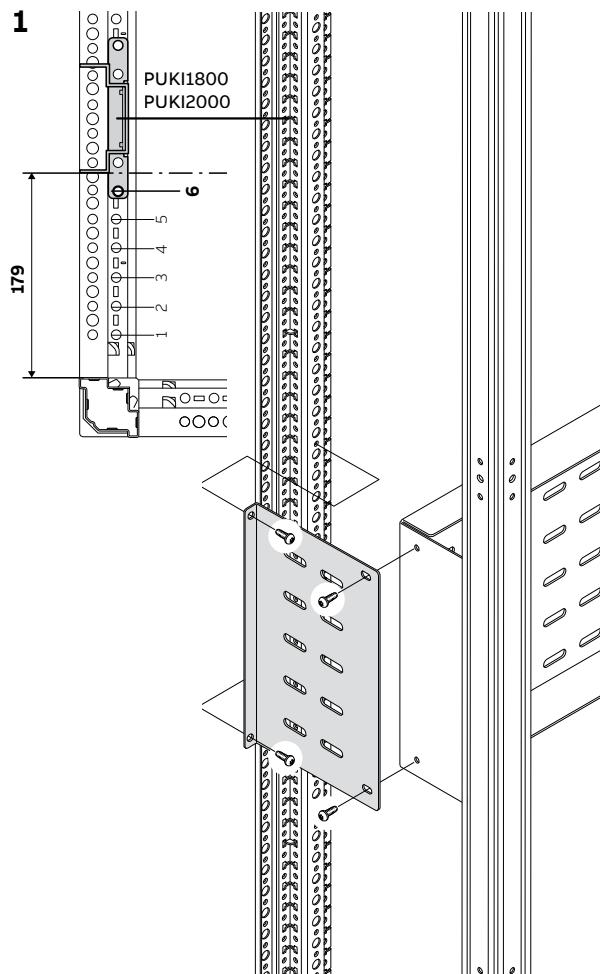
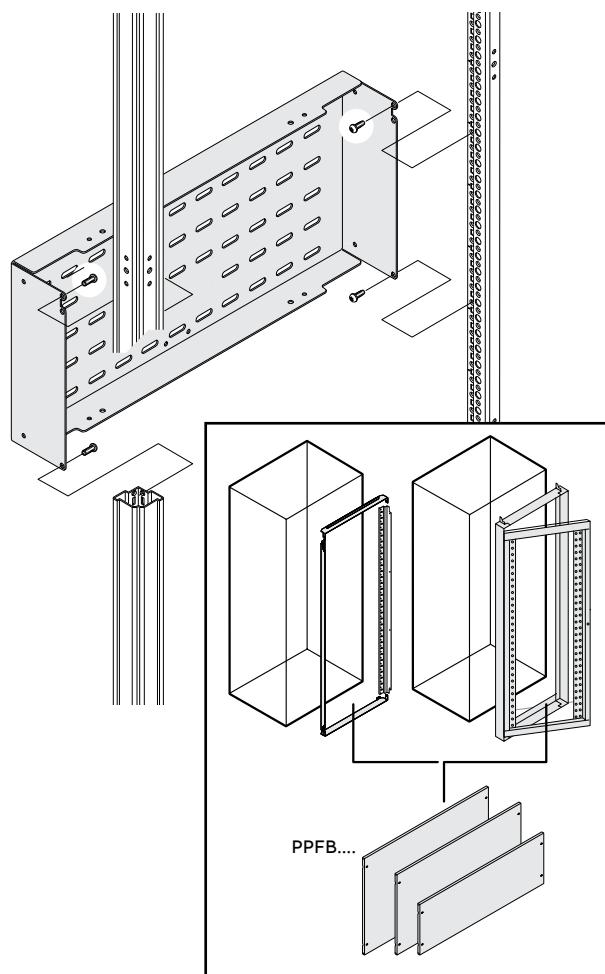
4x M6x10 Torx 30

PSVS....

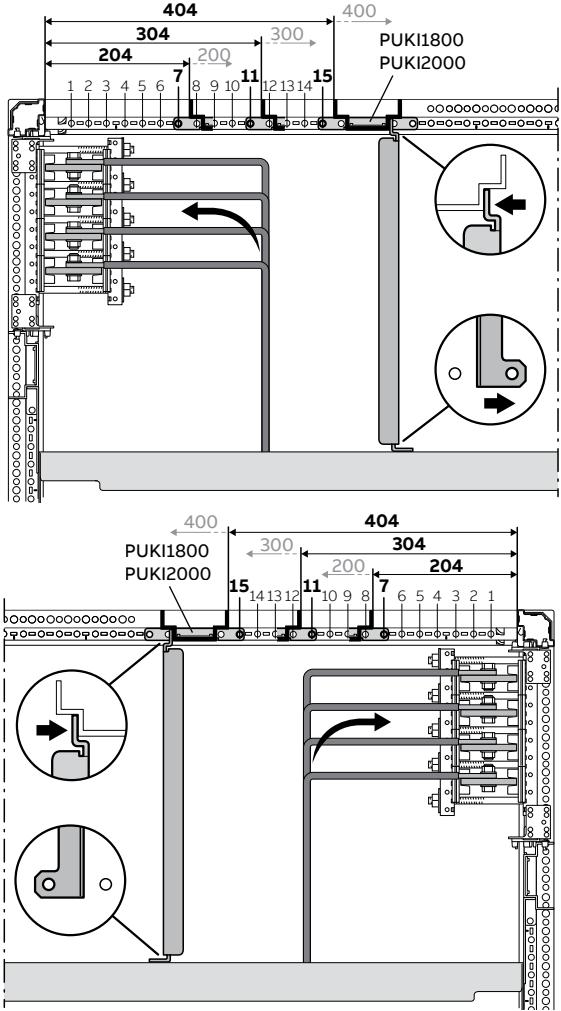
4x M6x10 Torx 30



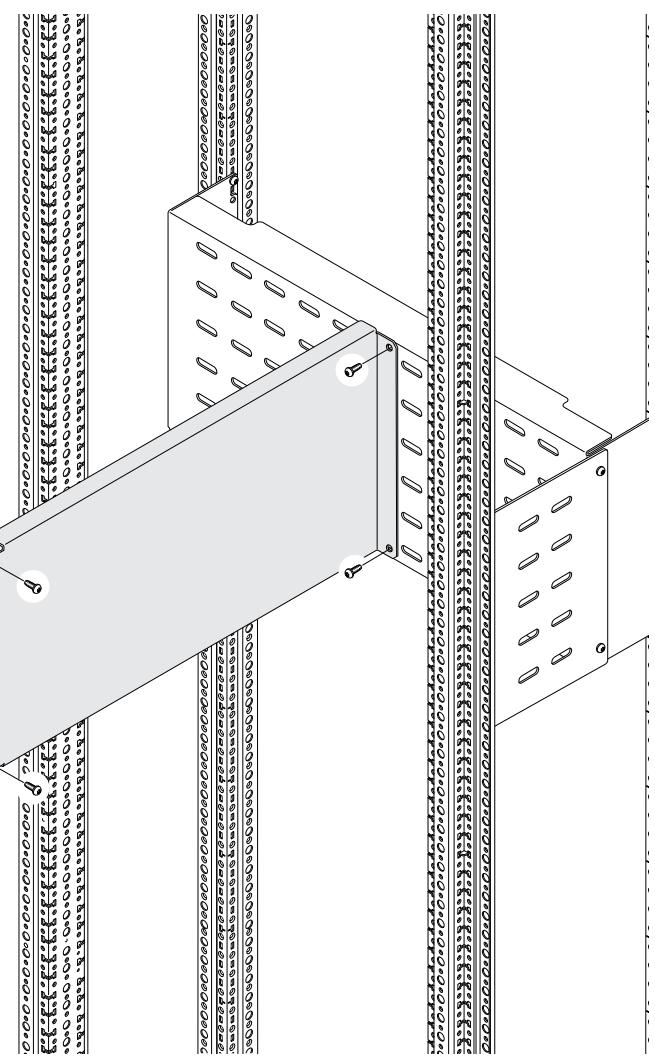
#### Segregation Form 2a-3a



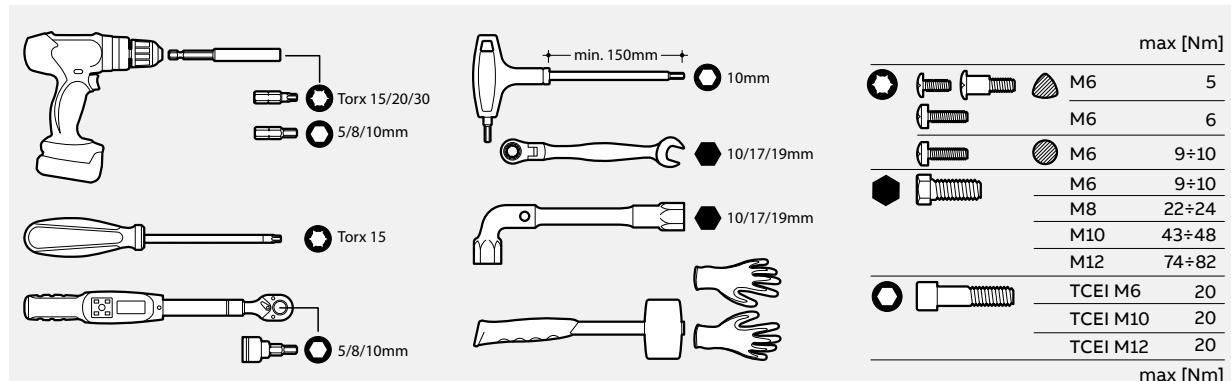
## Segregation Form 2a-3a



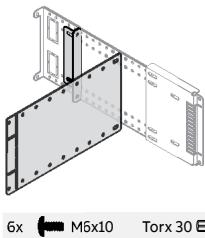
2



## Segregation 4b horizontal circuit-breakers

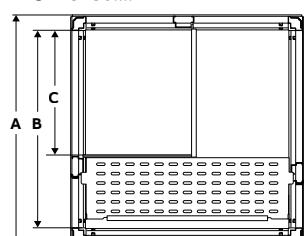


PCVS....



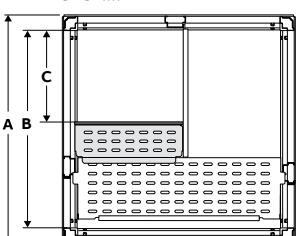
6x Torx 30

P0 PCVSO....



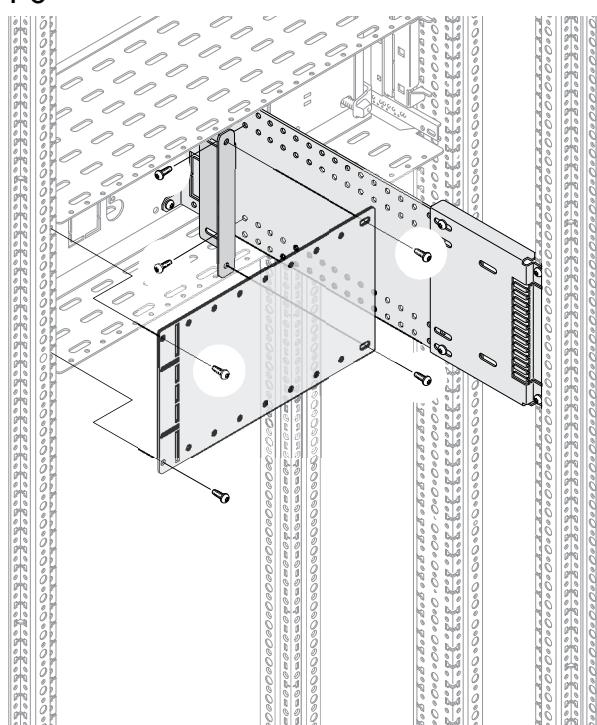
A	B	C
599	504	214
799	704	414
999	904	614

P1 PCVS1....

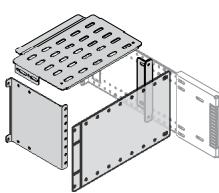


A	B	C
599	504	141.5
799	704	341.5
999	904	541.5

P0

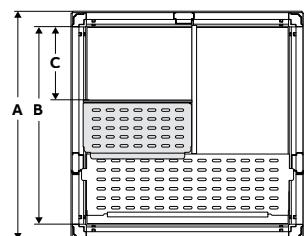


PCVS....



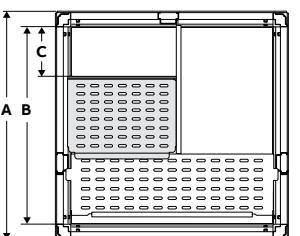
12x Torx 30

P2 PCVS2....



A	B	C
599	504	71.5
799	704	271.5
999	904	471.5

P3 PCVS3....



A	B	C
799	704	105.5
999	904	305.5

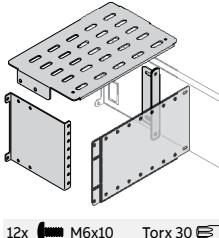
F-MO (T4,T5,T6)

P-MO - W-MO

P1-P2-P3

PSVS....

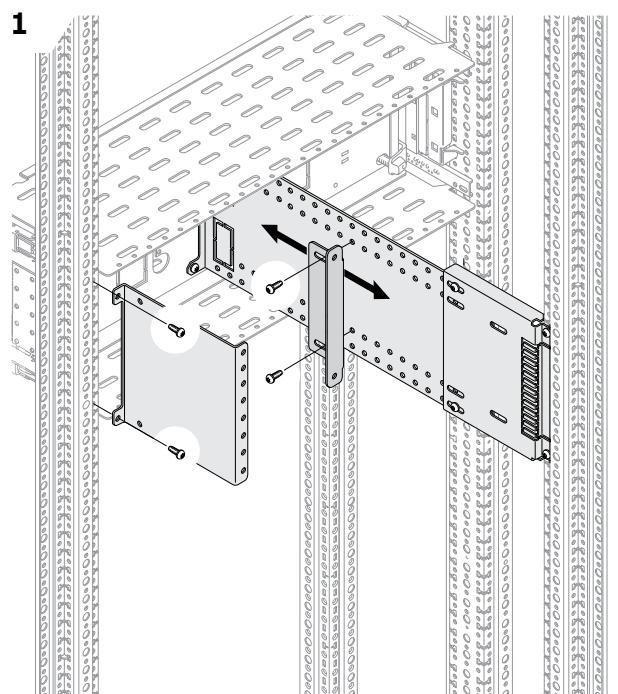
PCVS....



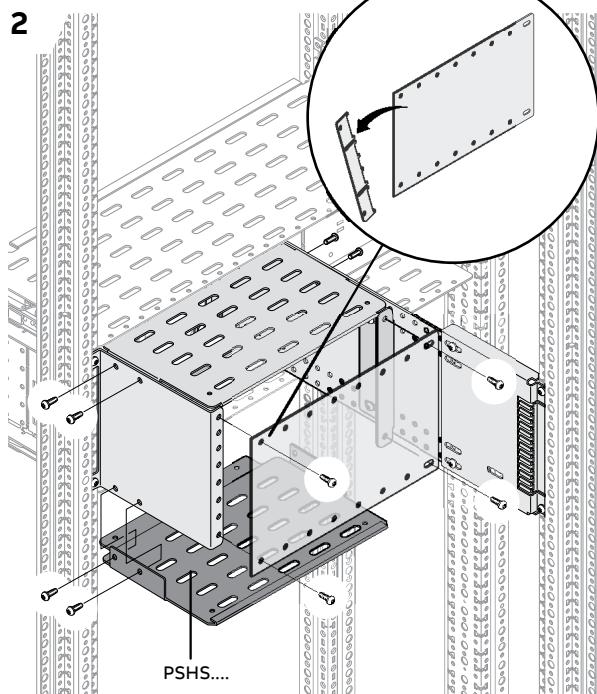
12x Torx 30

P1 - P2 - P3

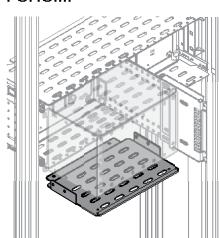
1



2



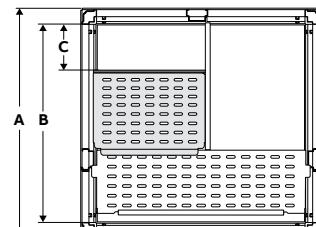
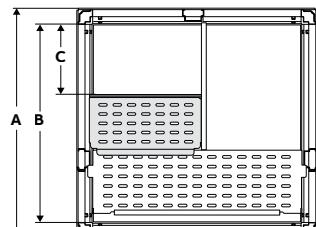
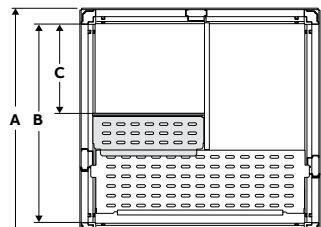
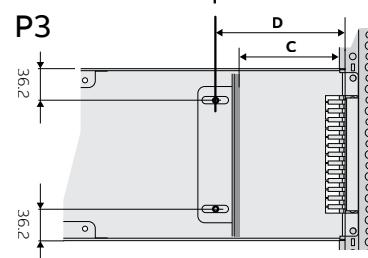
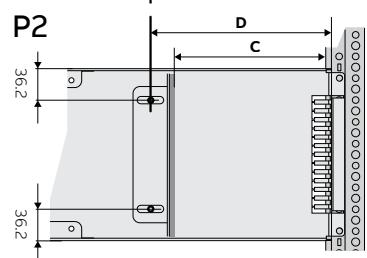
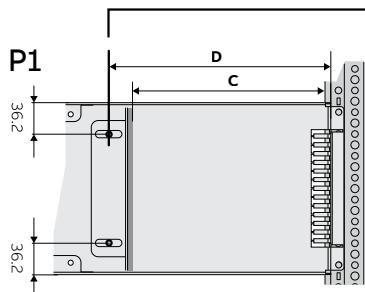
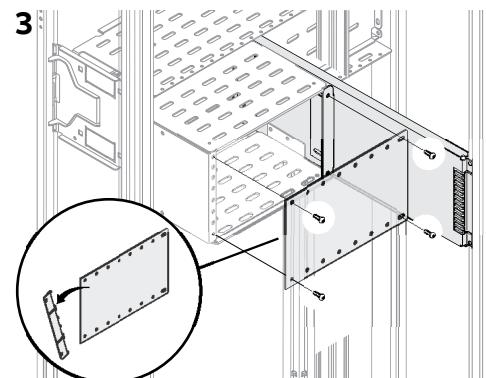
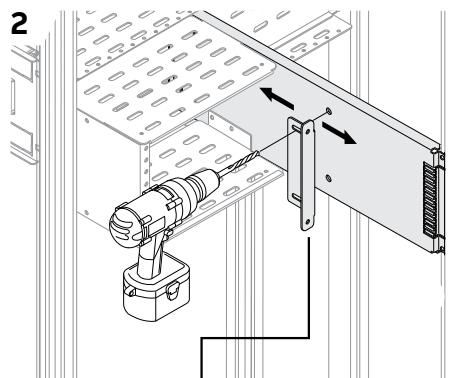
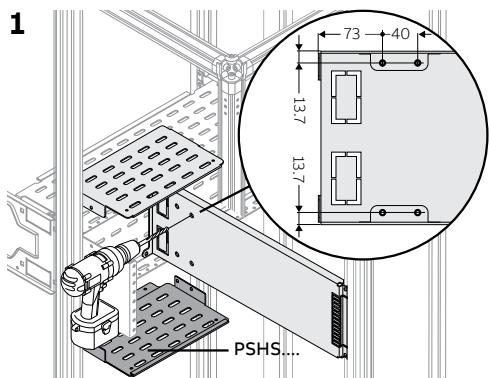
PSHS....



4x Torx 30

**F-MO (T4,T5,T6) - P-MO - W-MO**

P1-P2-P3



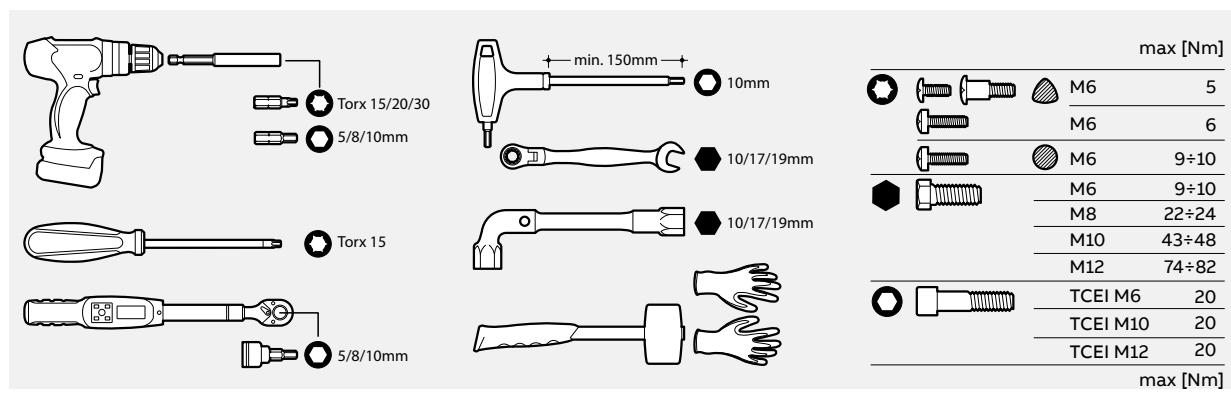
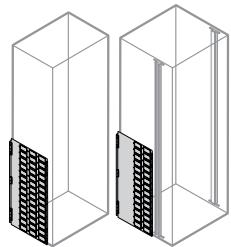
A	B	C	D
599	504	141.5	170
799	704	341.5	370
999	904	541.5	570

A	B	C	D
599	504	71.5	100
799	704	271.5	300

A	B	C	D
799	704	105.5	134
999	904	305.5	334

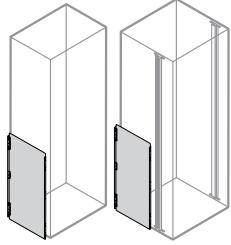
## Side segregation 2b for structure

PTVS....

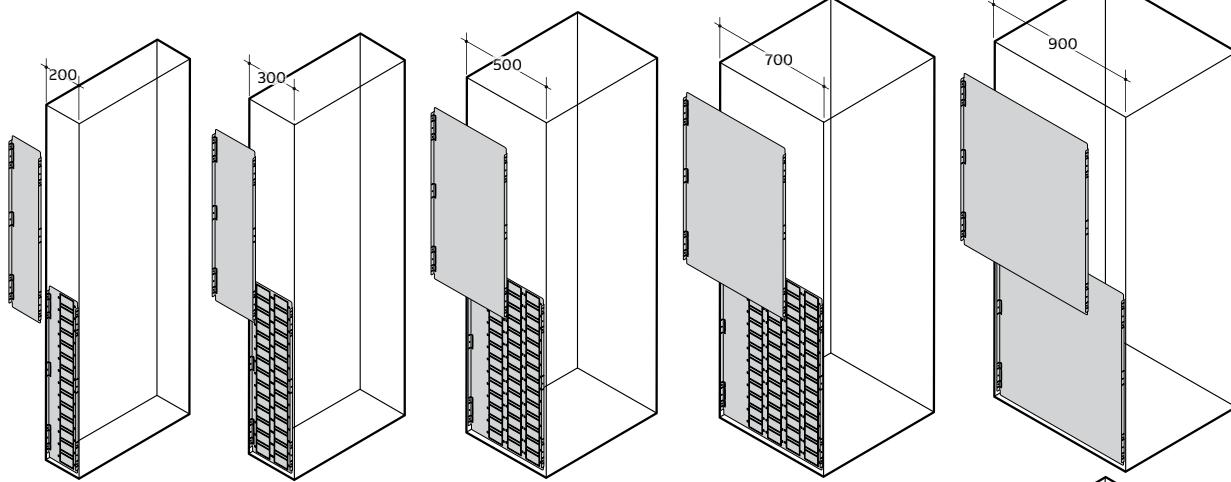
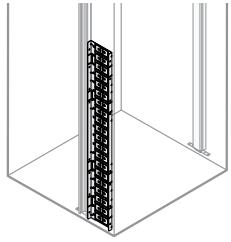


8x M6x10 Torx 30

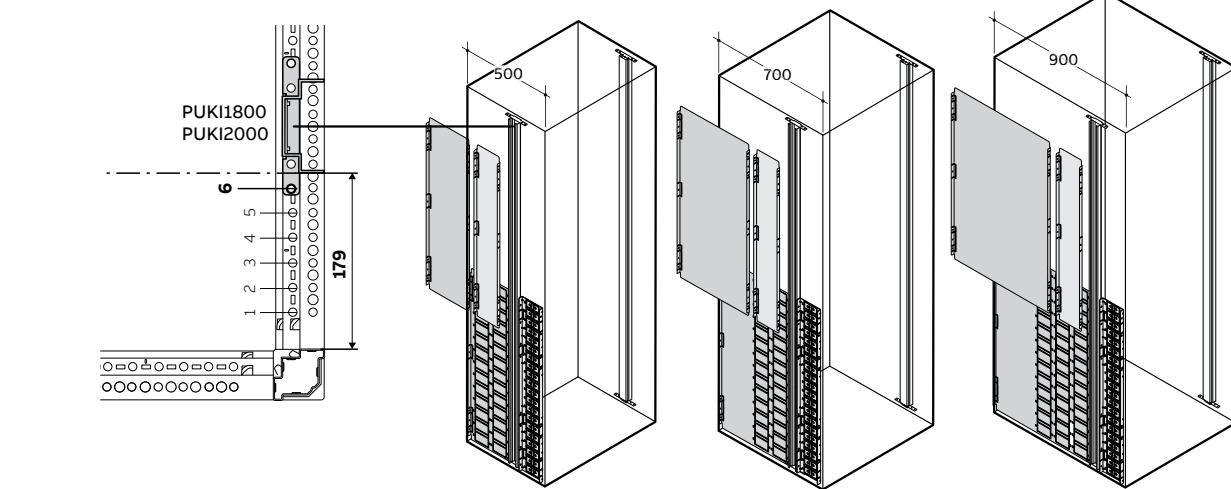
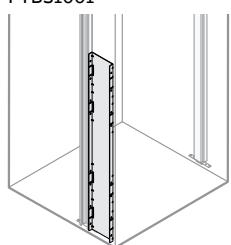
PTBS....



8x M6x10 Torx 30

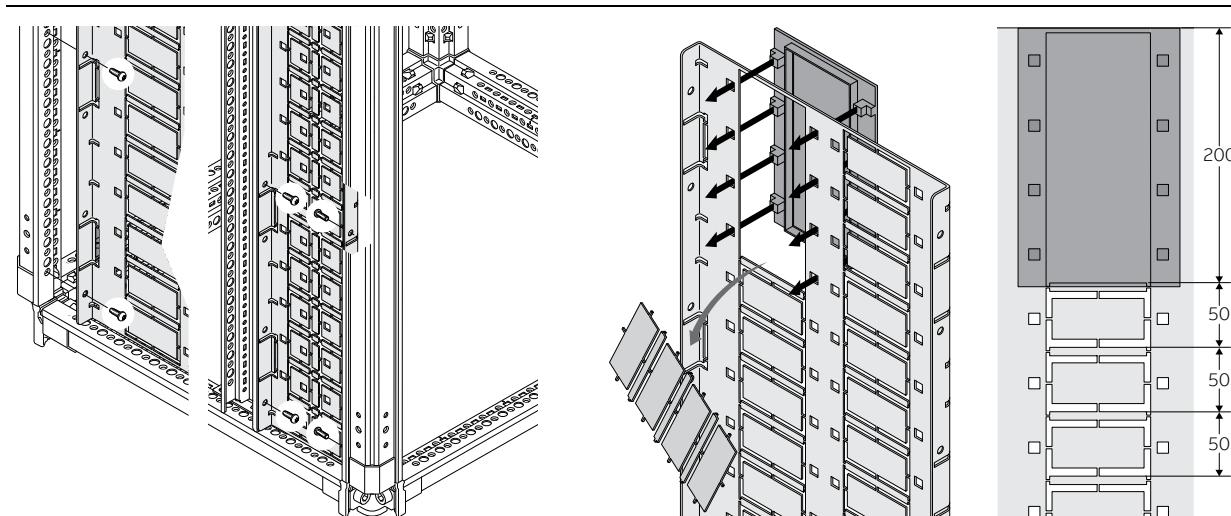
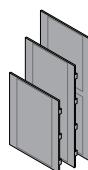
PTVS8001  
PTVS1001

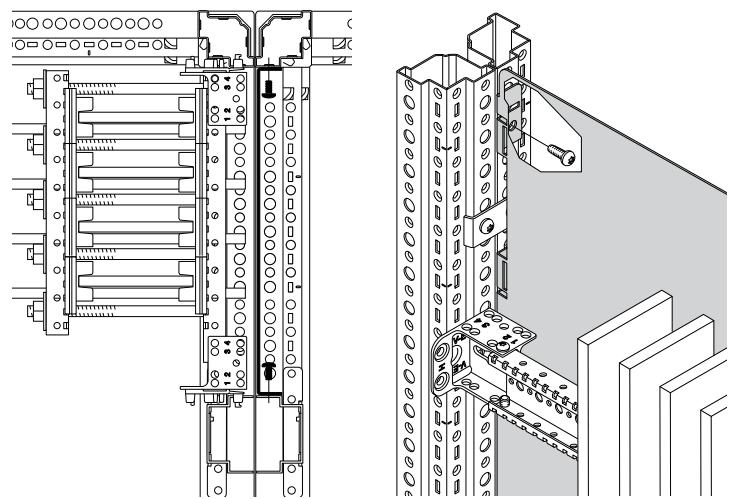
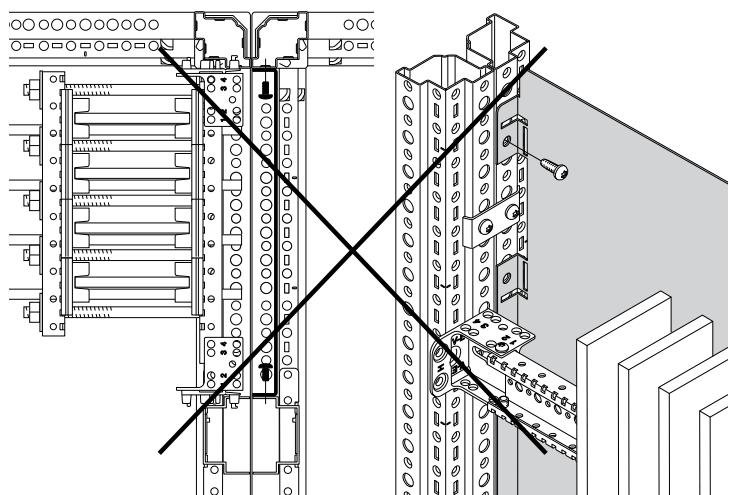
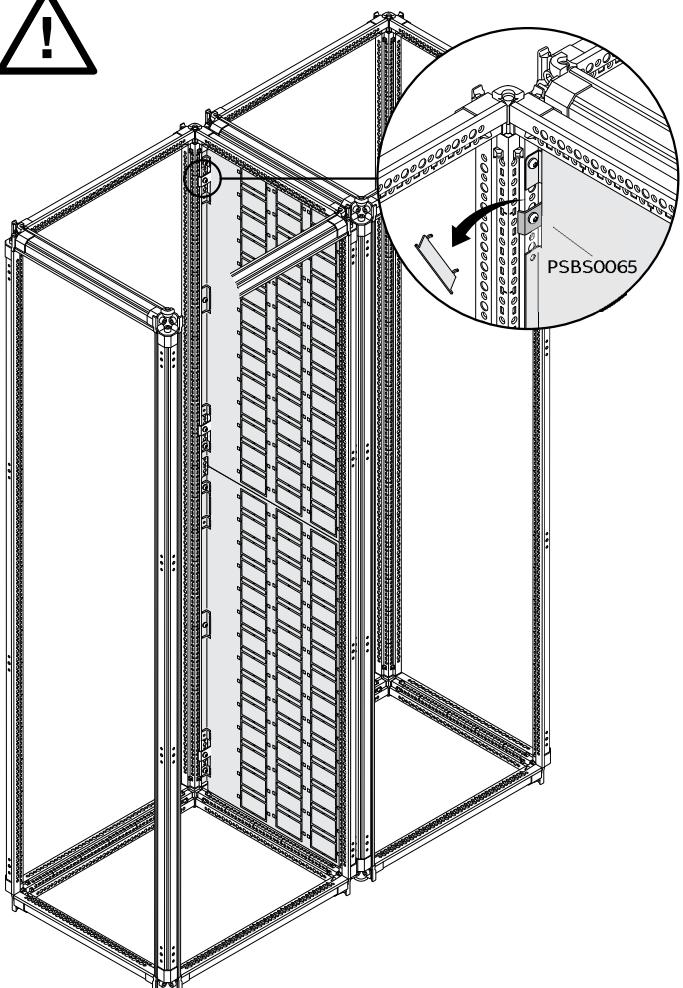
8x M6x10 Torx 30

PTBS8001  
PTBS1001

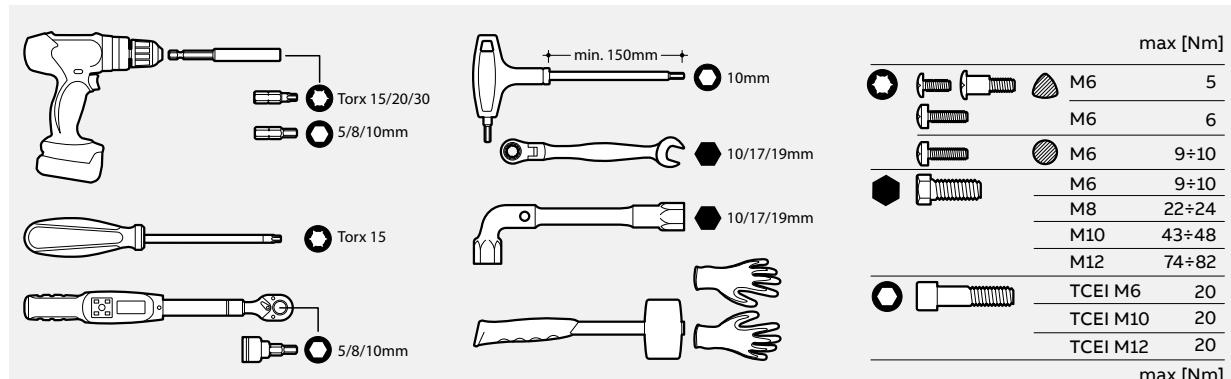
8x M6x10 Torx 30

PPRS....

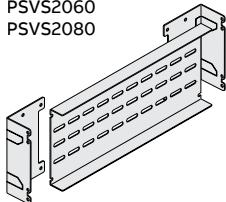




## Top bottom segregation for structure without intermediate upright

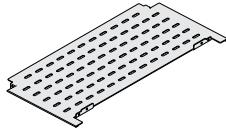


PFVS2040  
PSVS2060  
PSVS2080

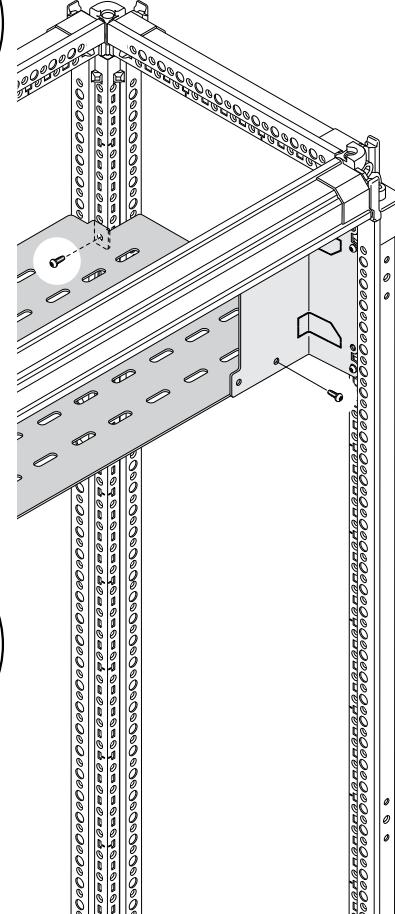
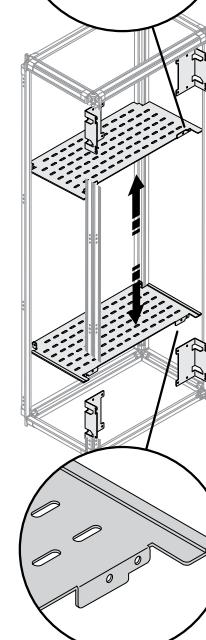
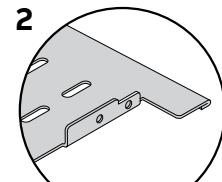
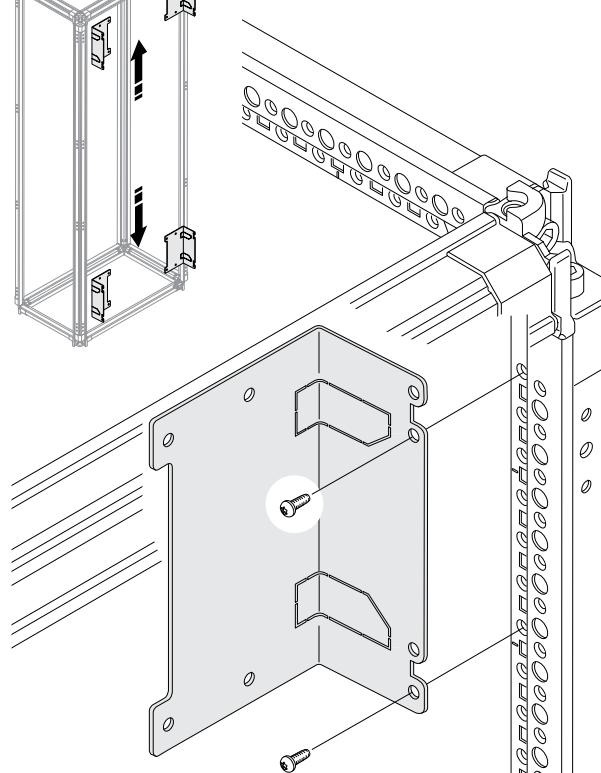
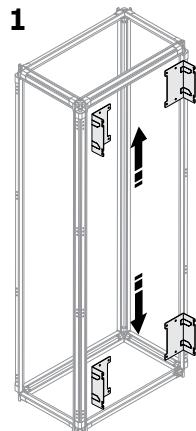
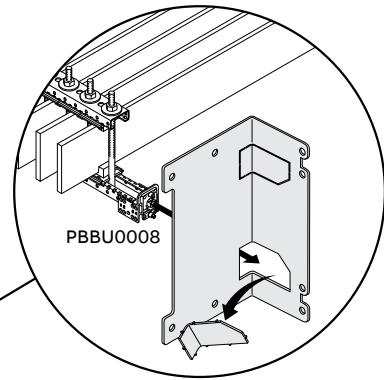
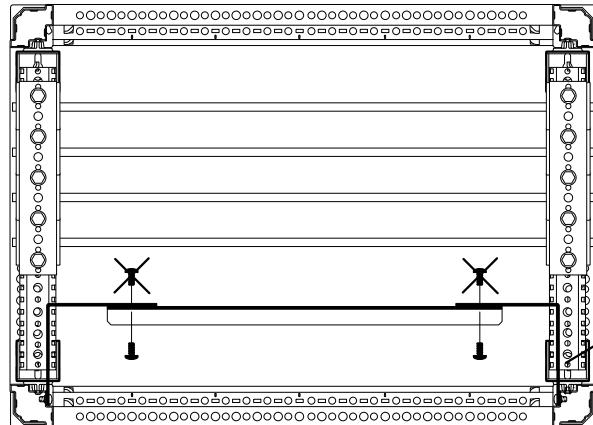


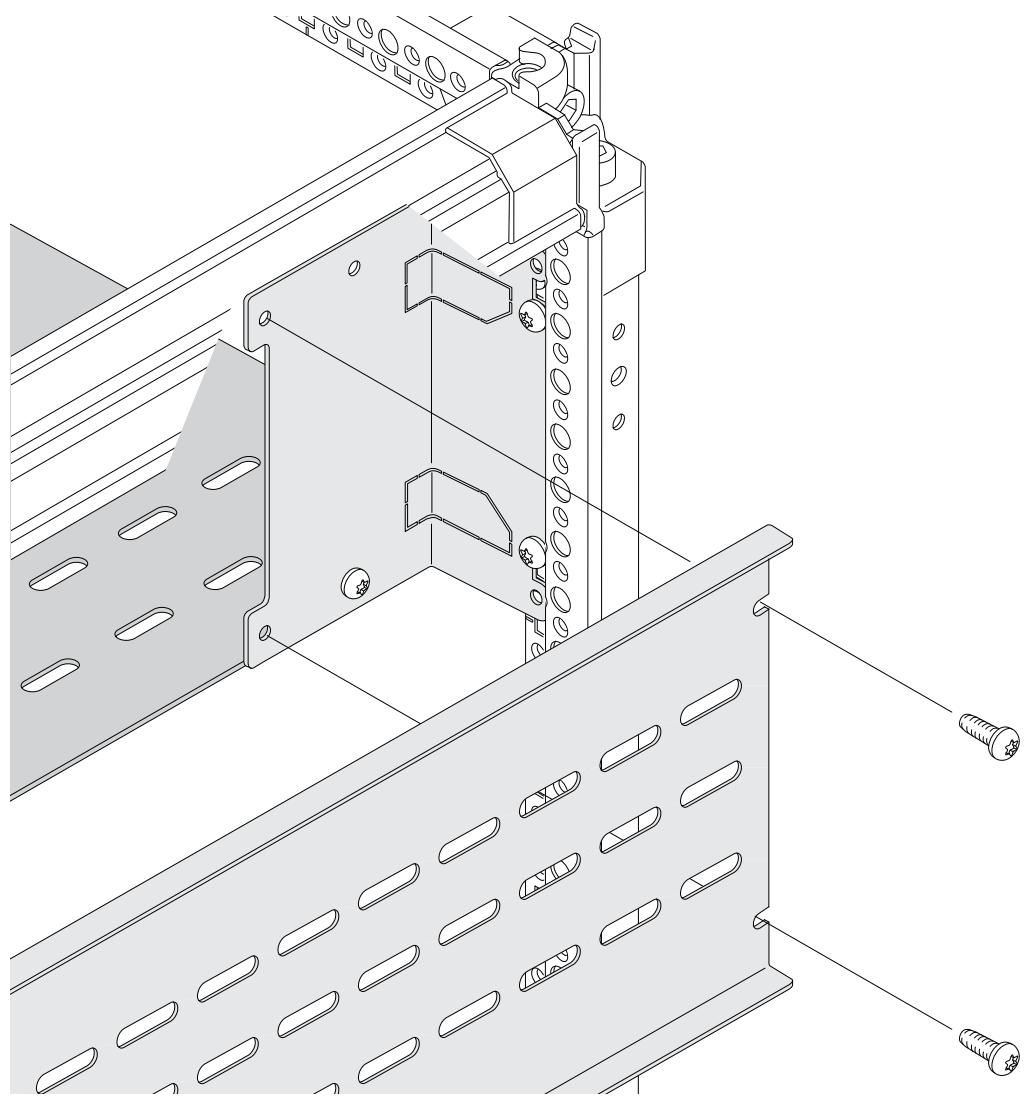
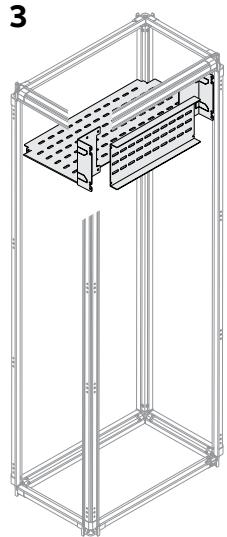
8x M6x10 Torx 30

PTHS....

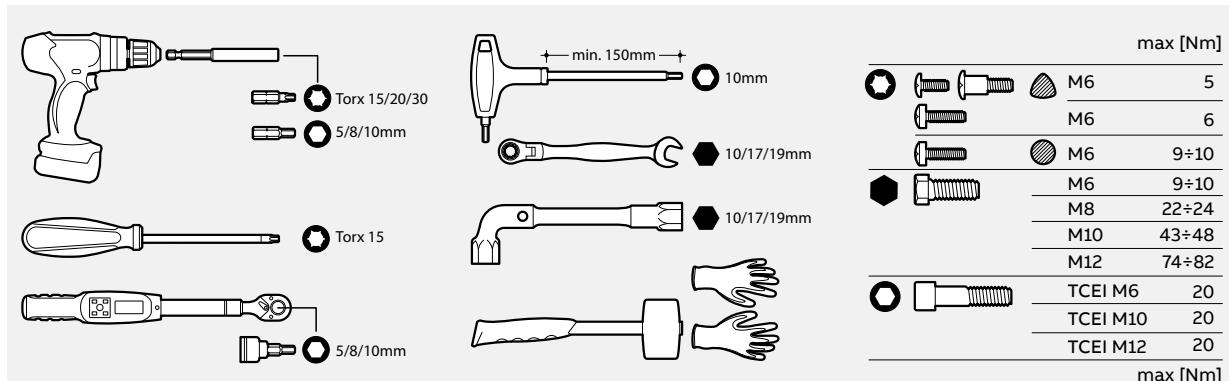


4x M6x10 Torx 30

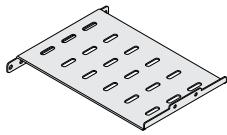


**3**

## Busbars segregation top/ bottom, in internal cable compartment without intermediate upright



PTHS....

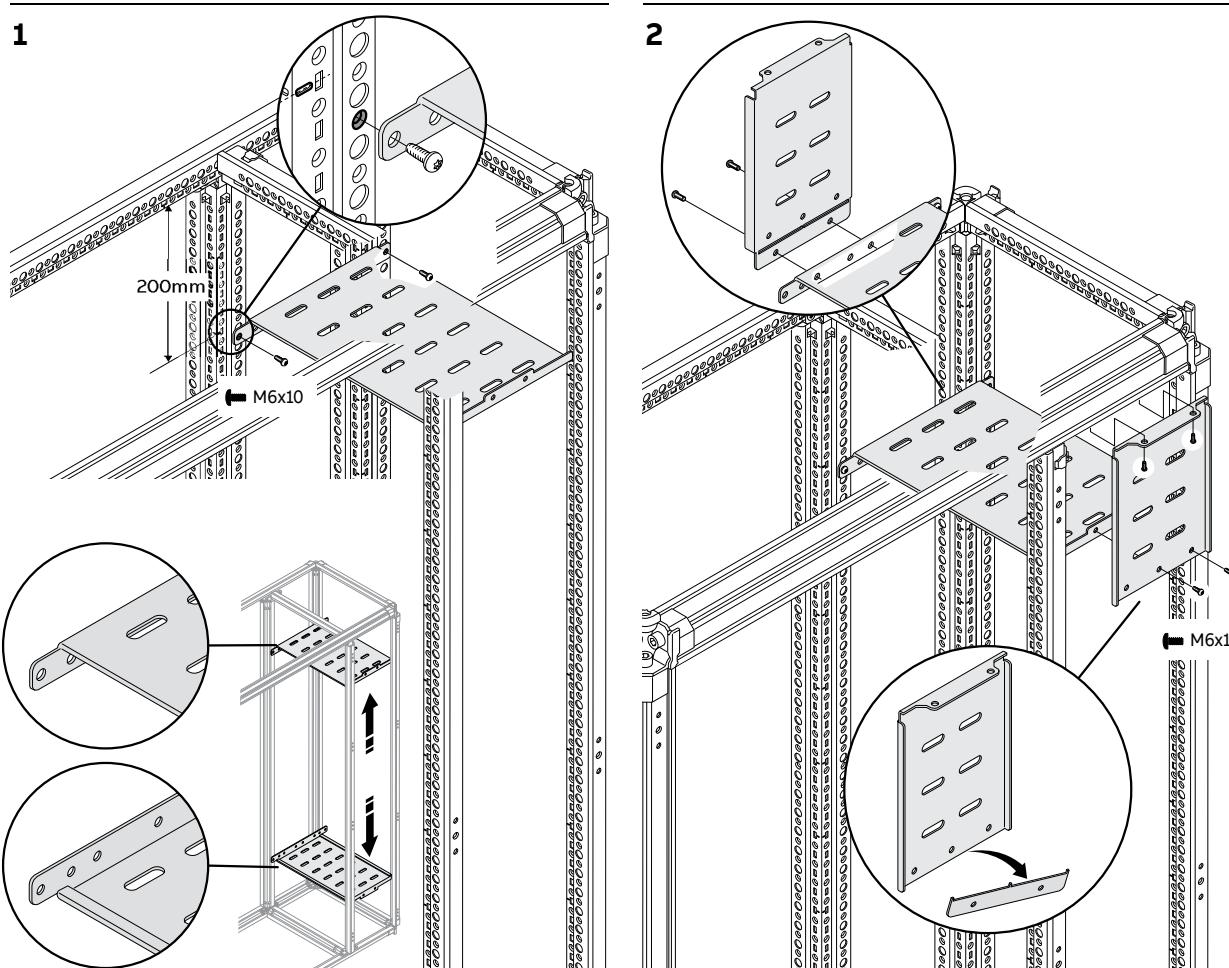
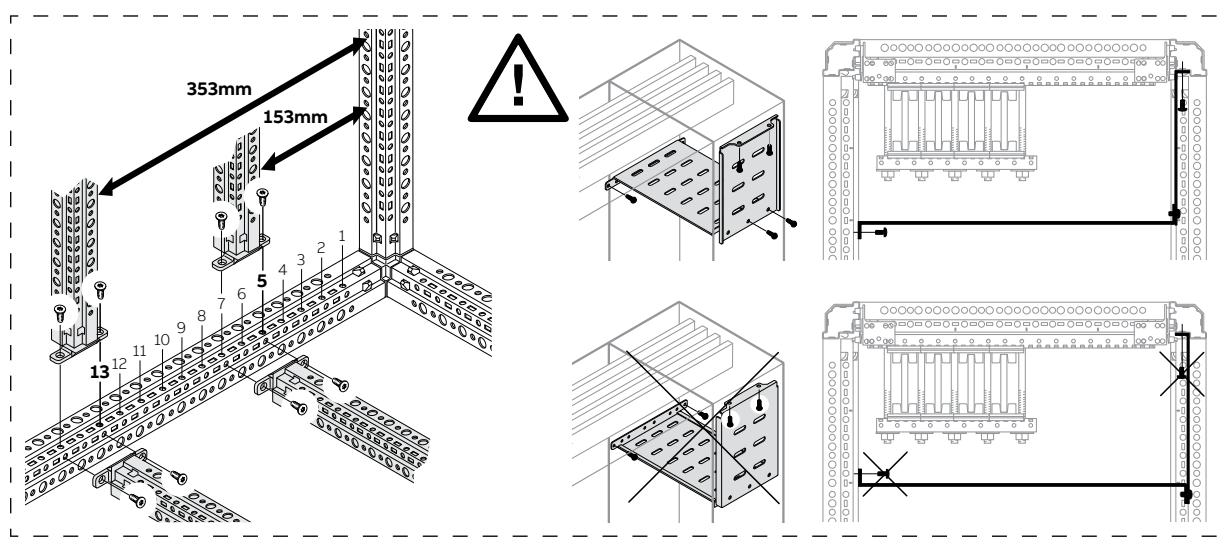


4x M6x10 Torx 30

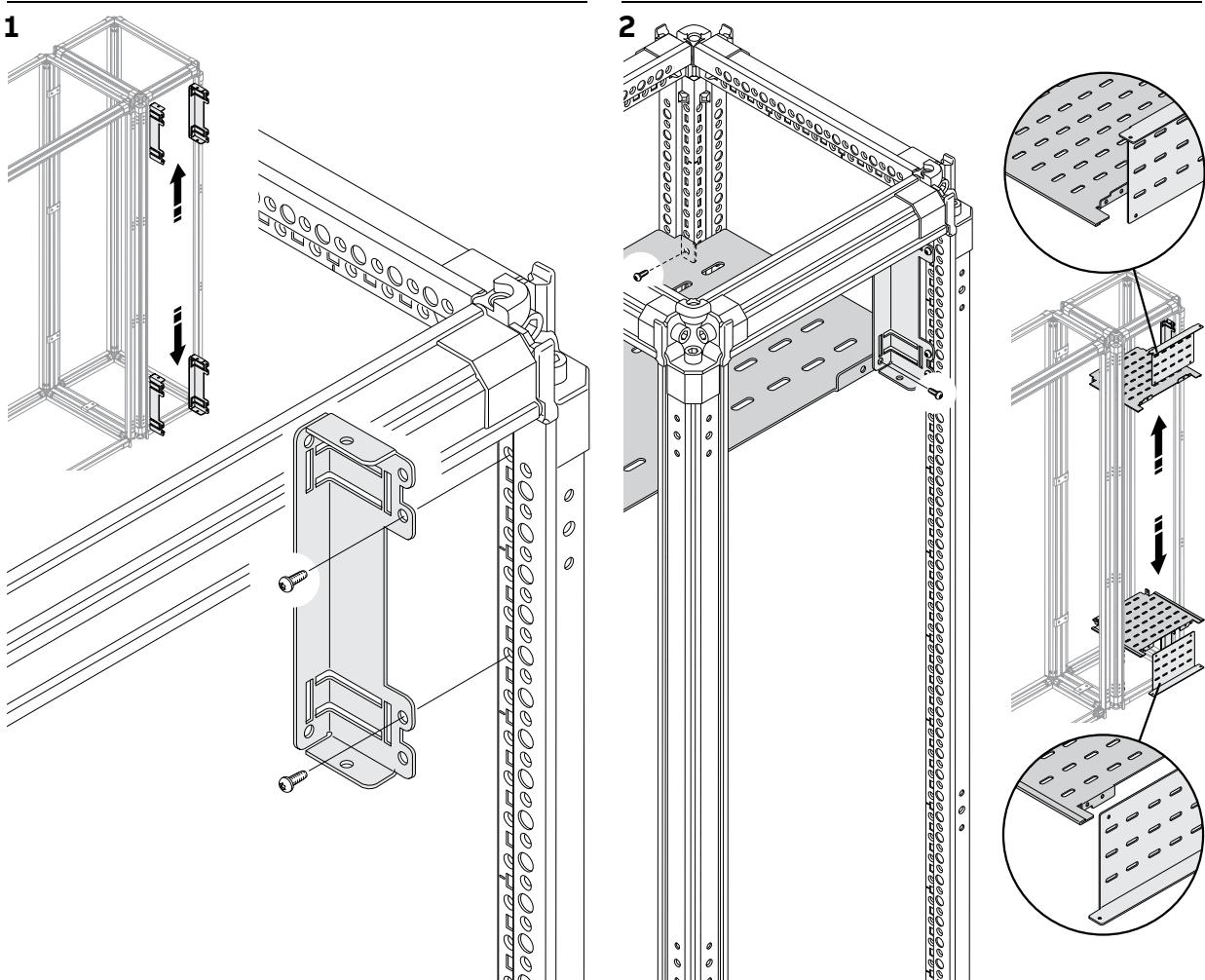
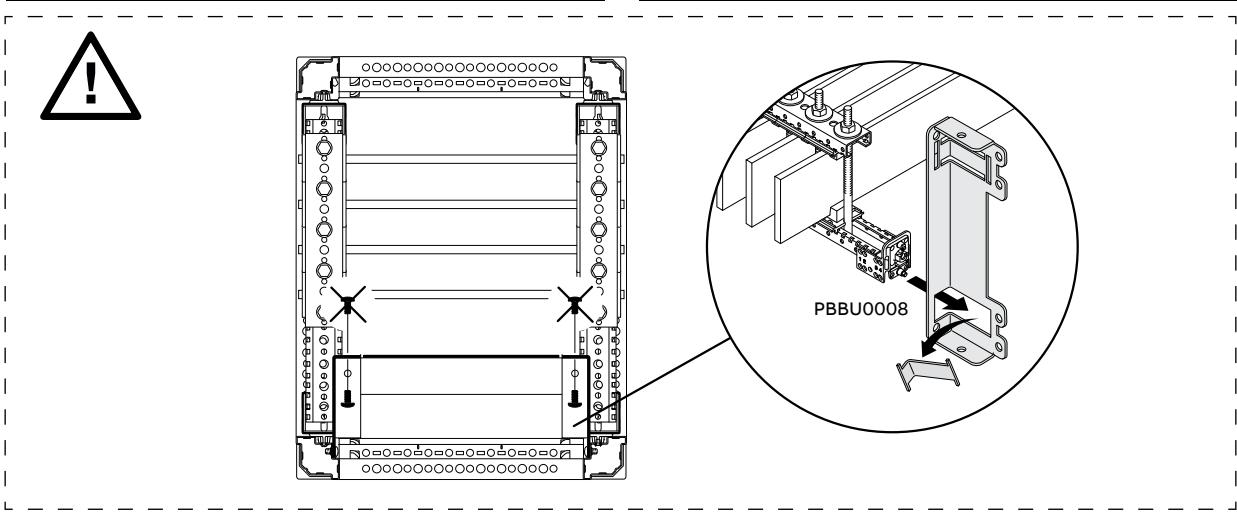
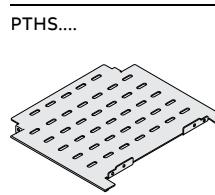
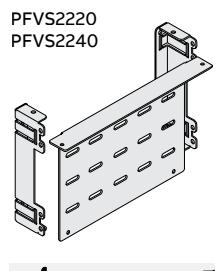
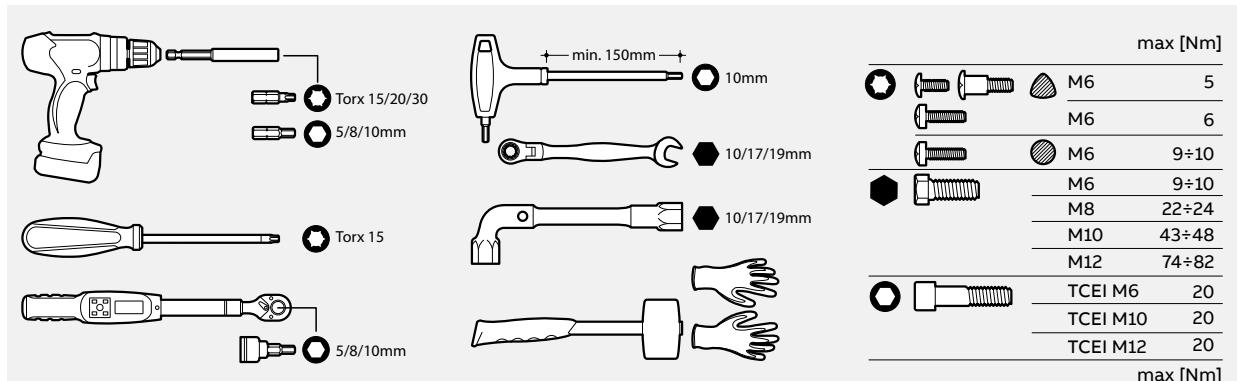
PTHS....

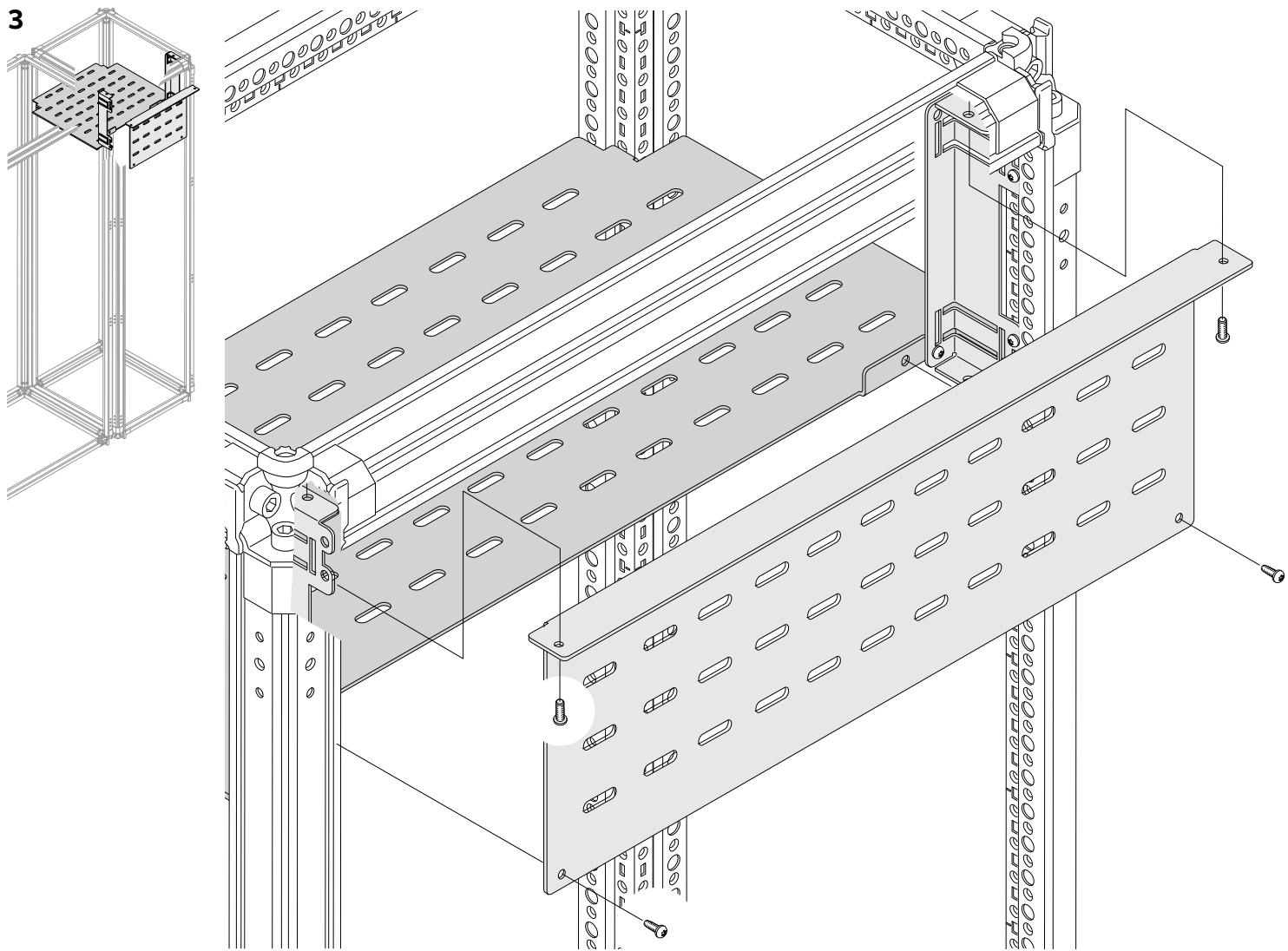


4x M6x10 Torx 30

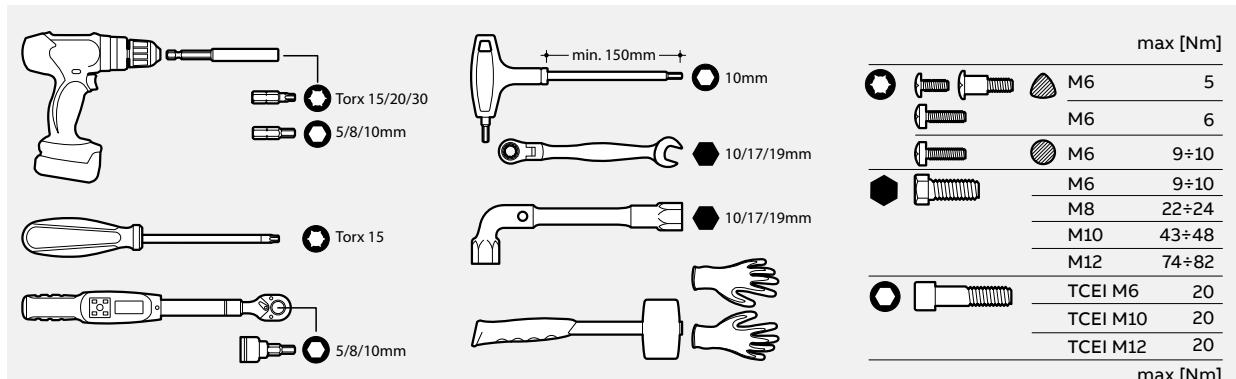


## Busbars segregation top/ bottom, in external cable compartment without intermediate upright



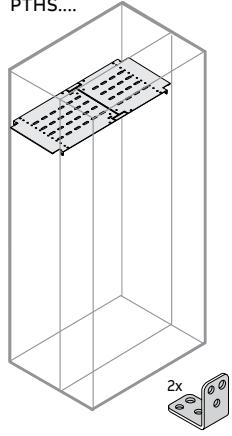
**3****4**

**Busbars segregation at any height for structure and external cable compartment with intermediate upright**

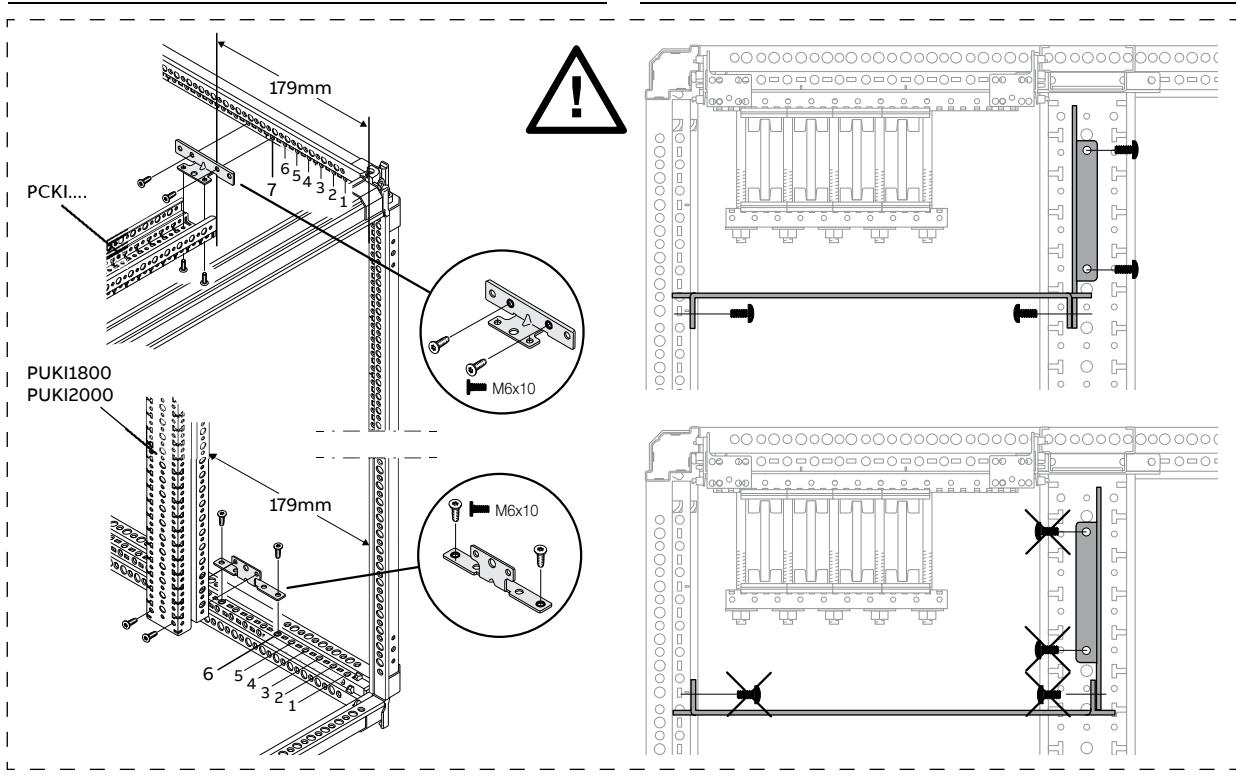


**Segregation Form 2b-3b**

PTHS....

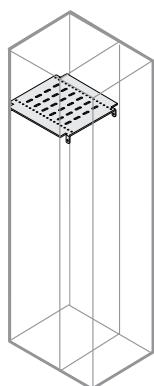


8 M6x10   Torx 20

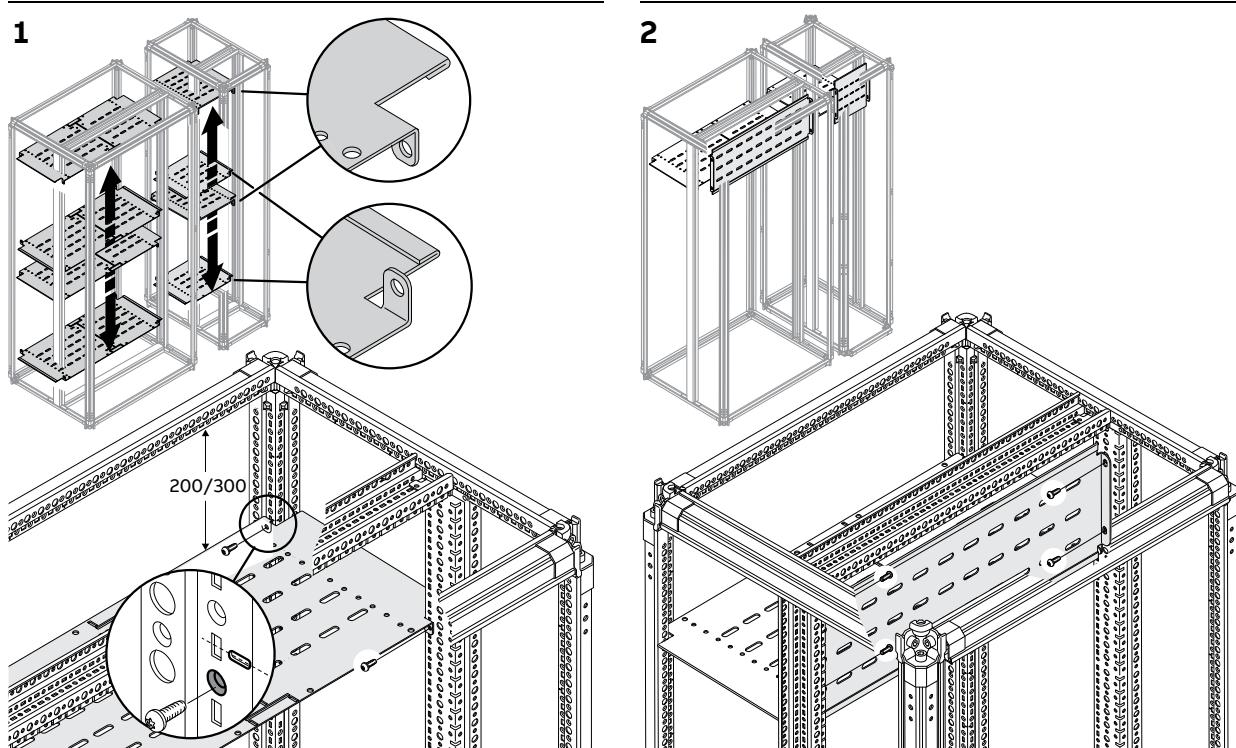


**Segregation Form 2b**

PTHS....

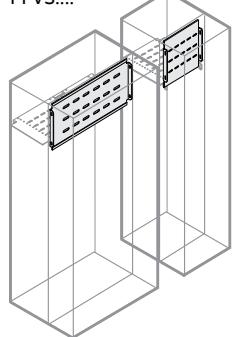


4 M6x10   Torx 20



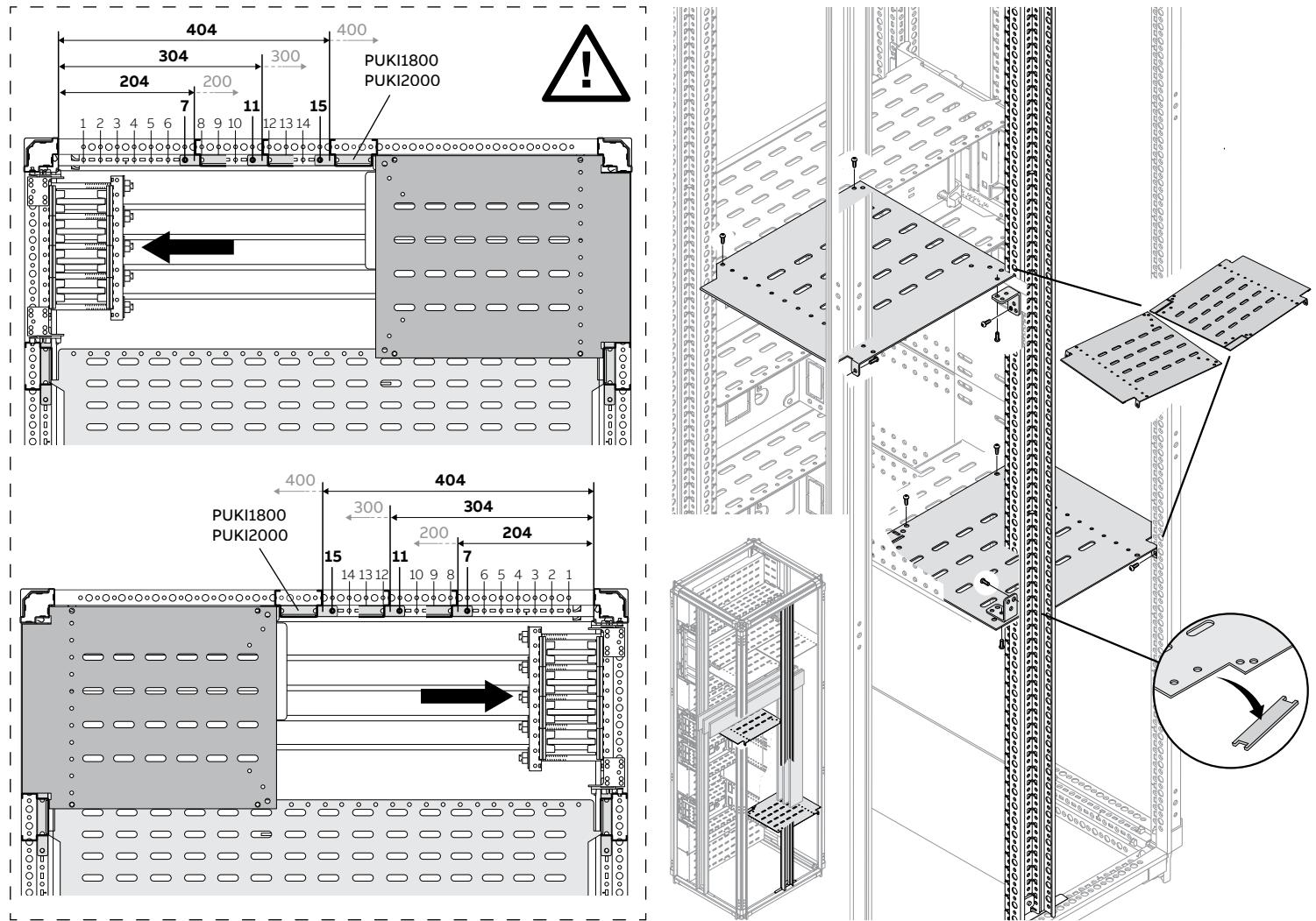
**Segregation Form 2b**

PFVS....

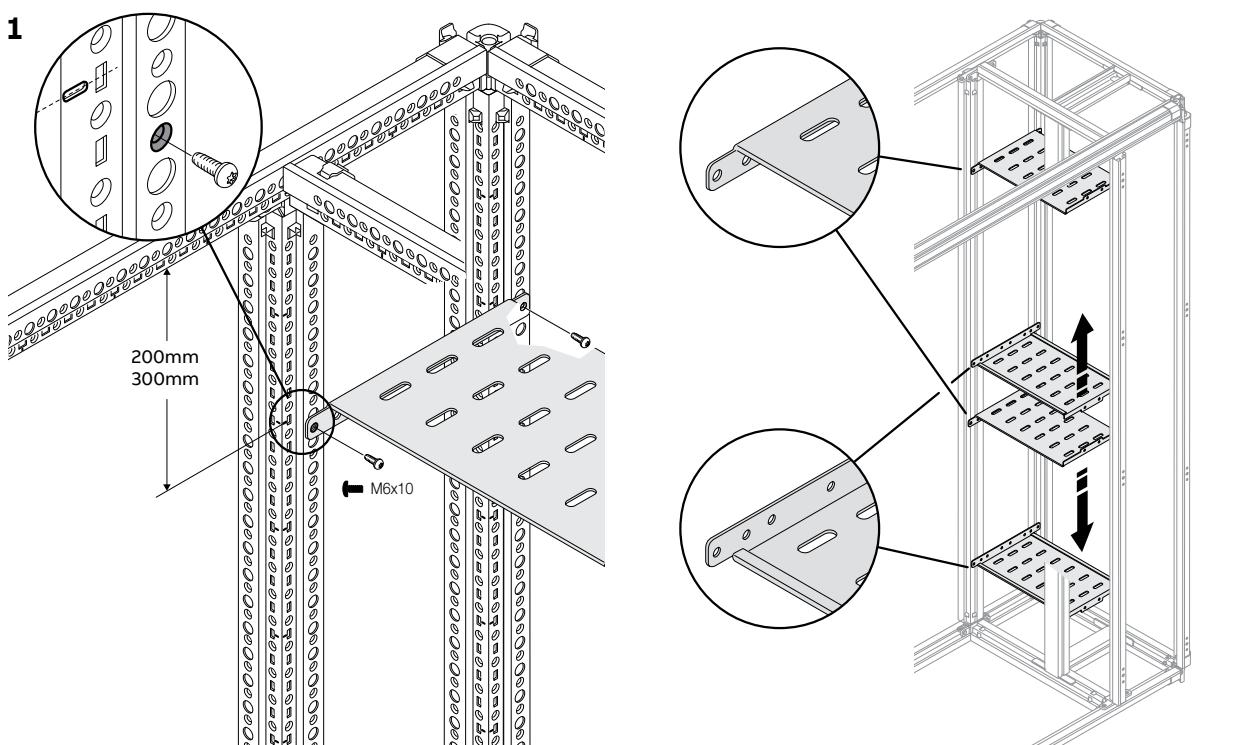
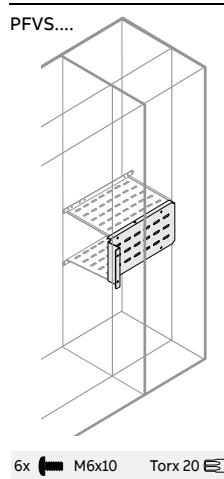
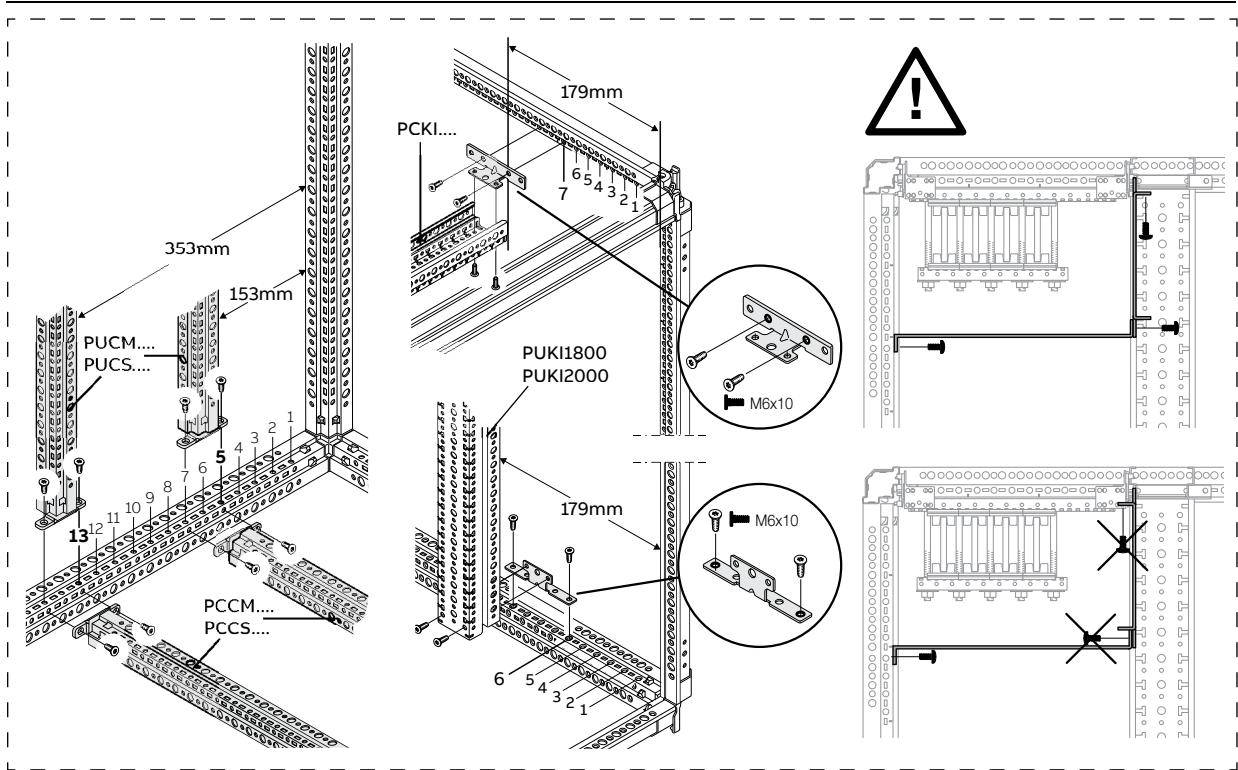
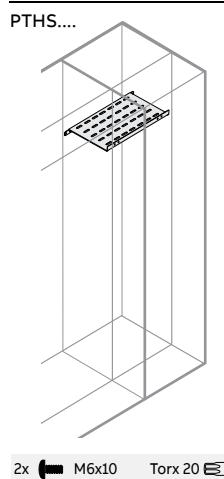
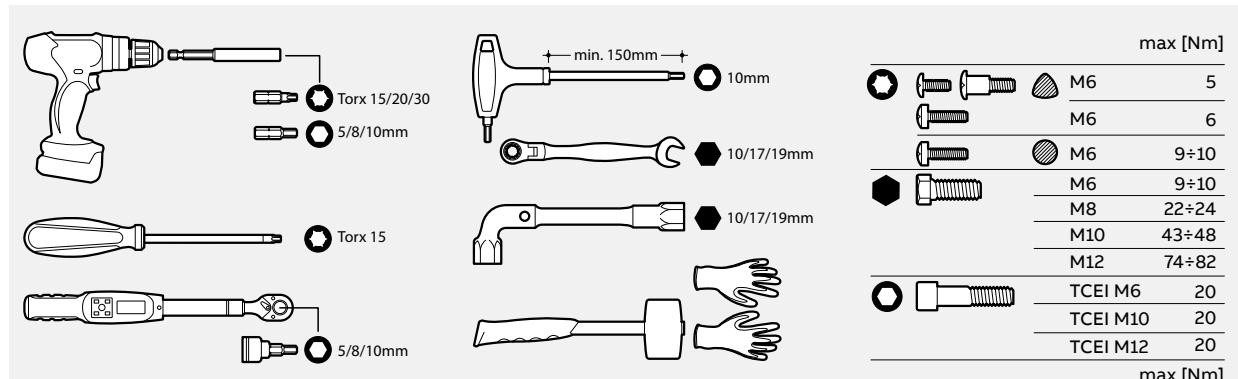


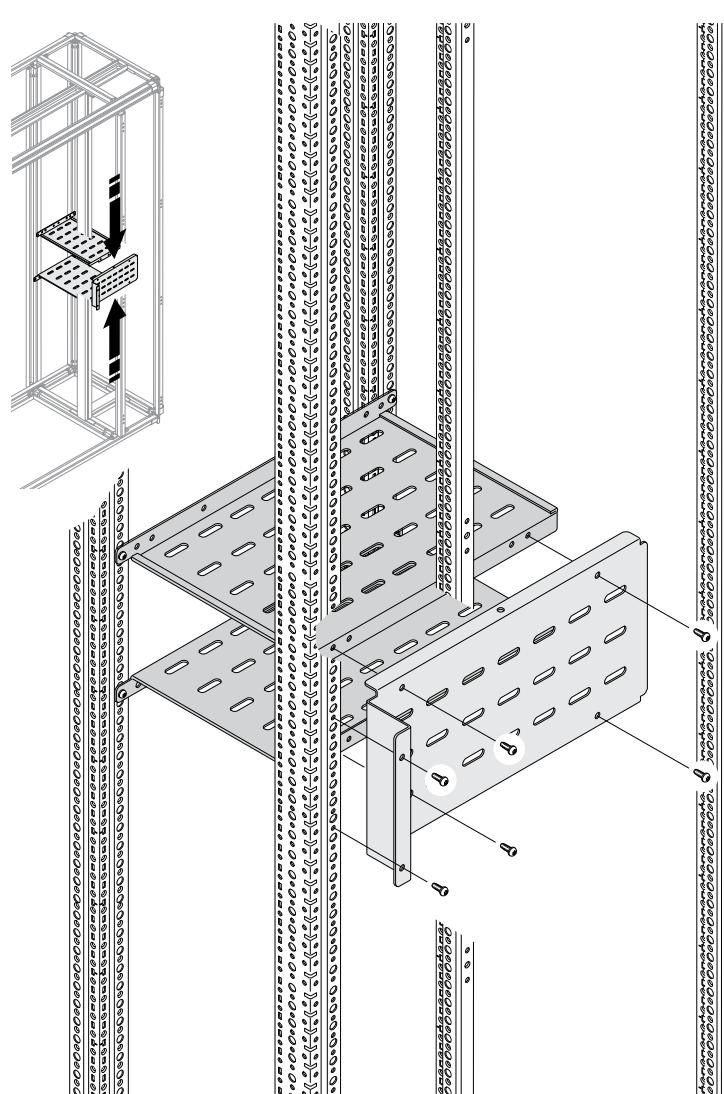
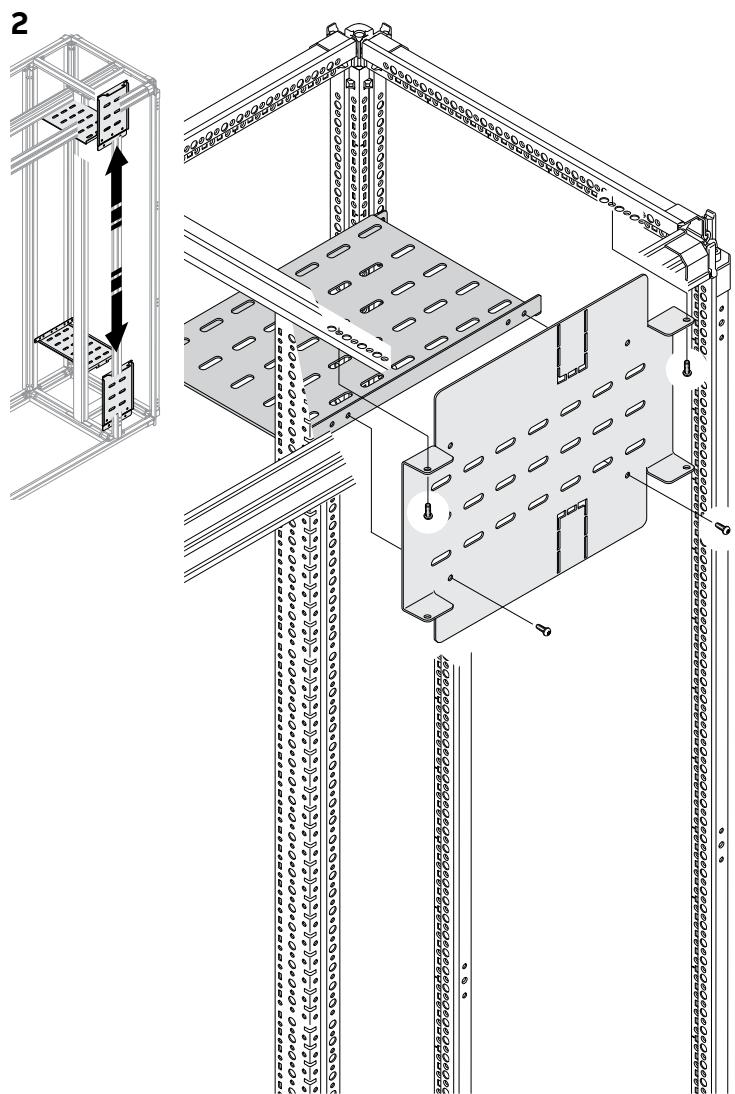
8 M6x10   Torx 20

## Segregation Form 3b



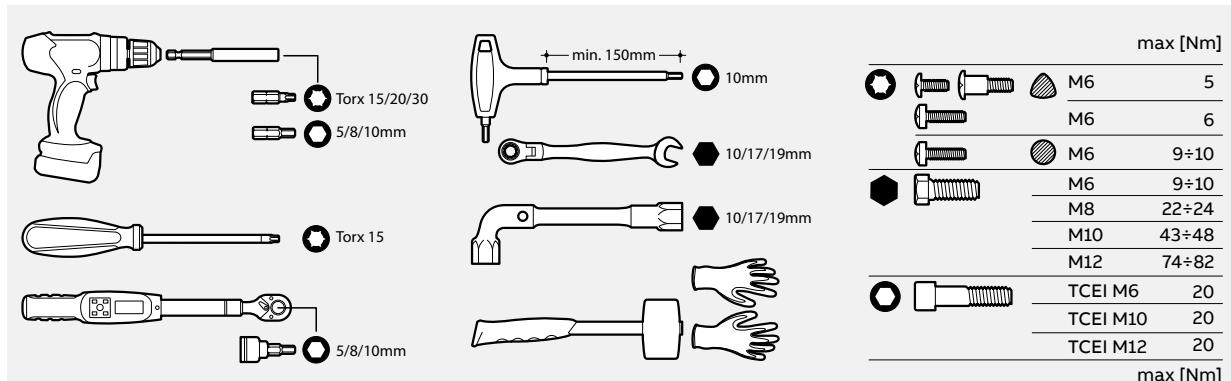
## Busbars segregation at any height for internal cable compartment with intermediate upright



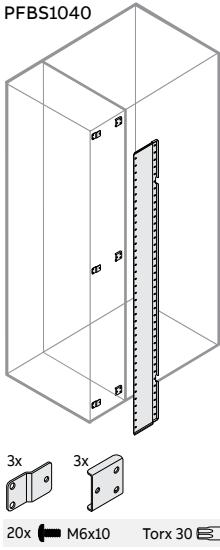


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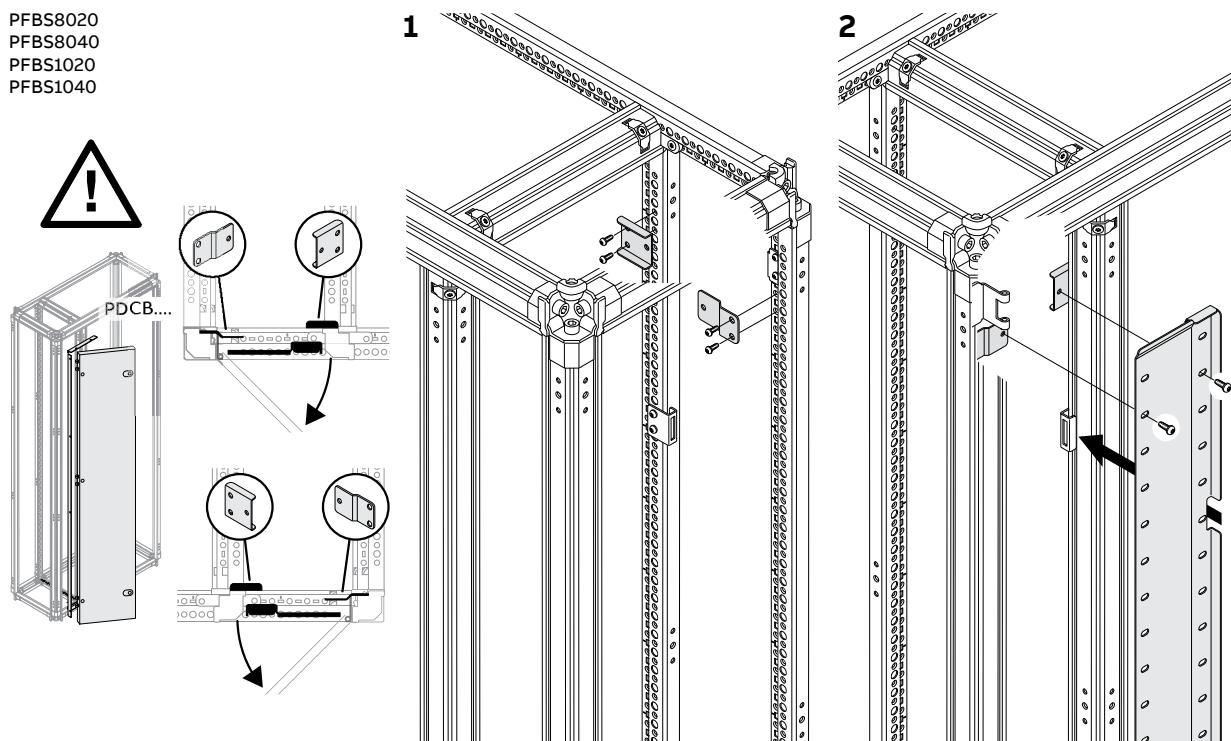
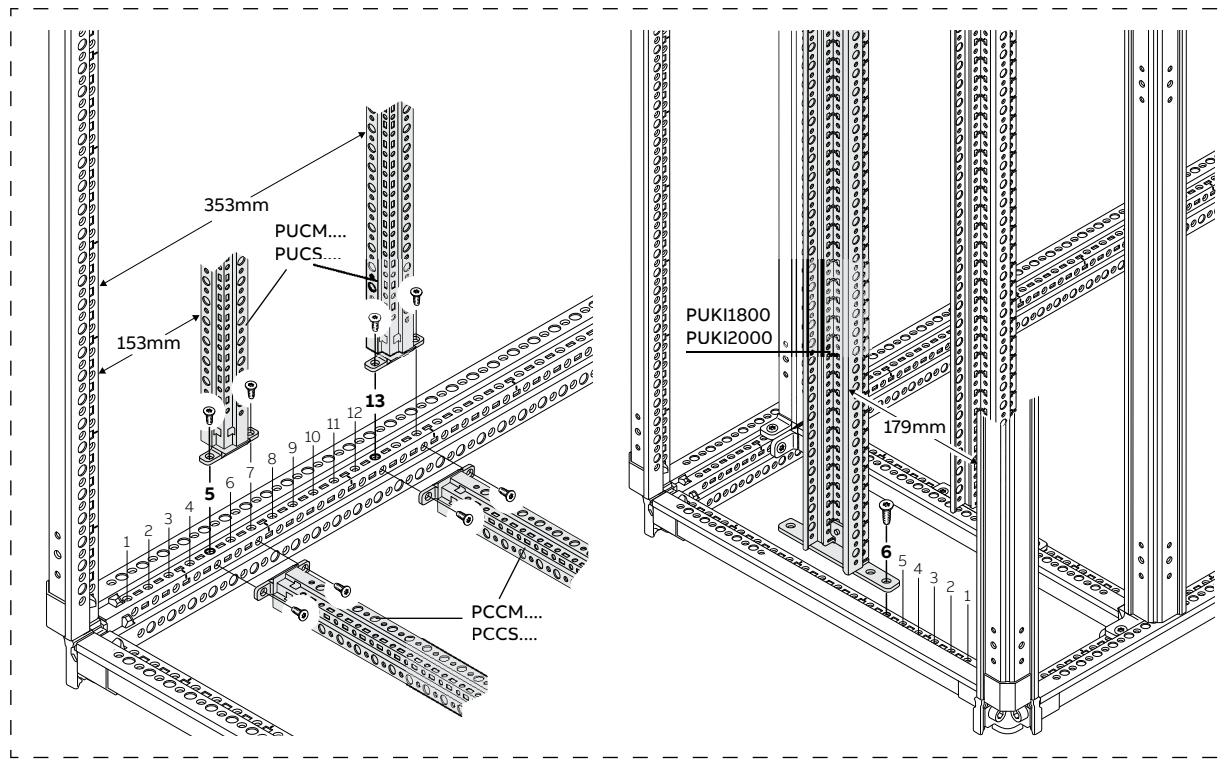
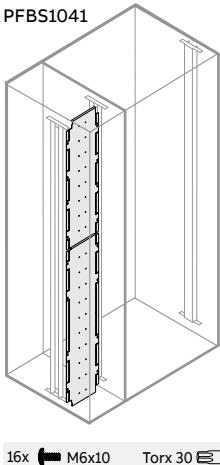
## Front segregation in internal cable compartment



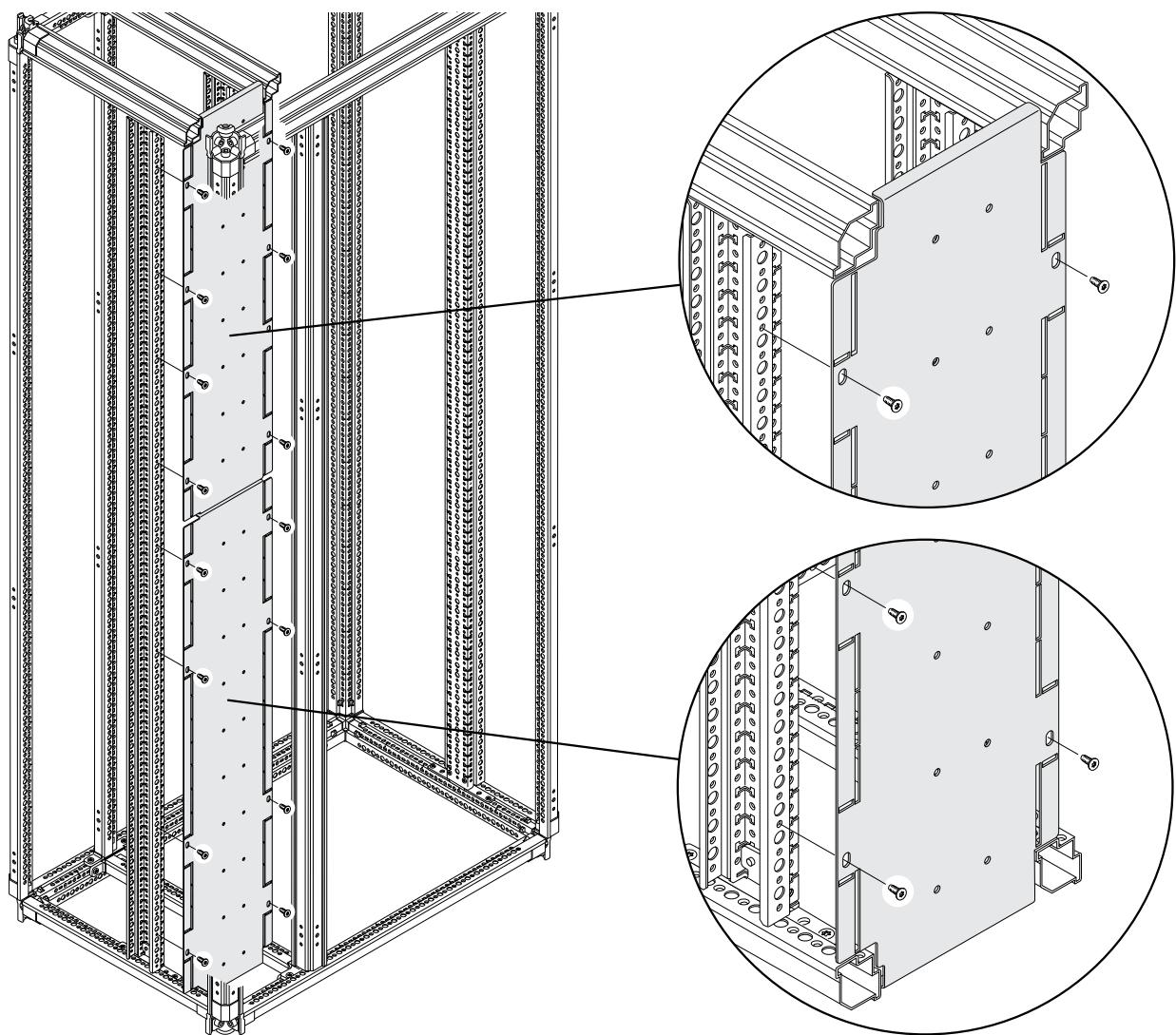
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PFBS8040  
PFBS1020  
PFBS1040



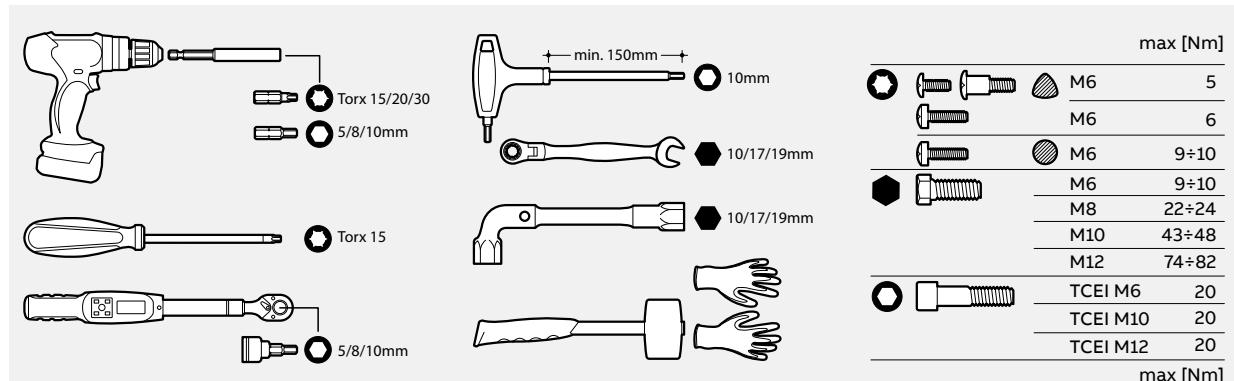
PFBS8021  
PFBS1021  
PFBS8041  
PFBS1041



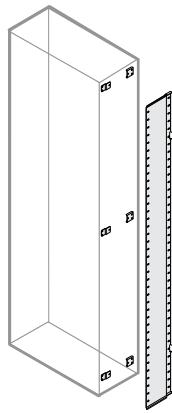
PFBS8021  
PFBS1021  
PFBS8041  
PFBS1041



## Front segregation in external cable compartment

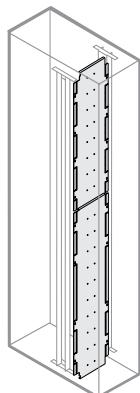


PFVS8030  
PFVS8040  
PFVS1030  
PFVS1040

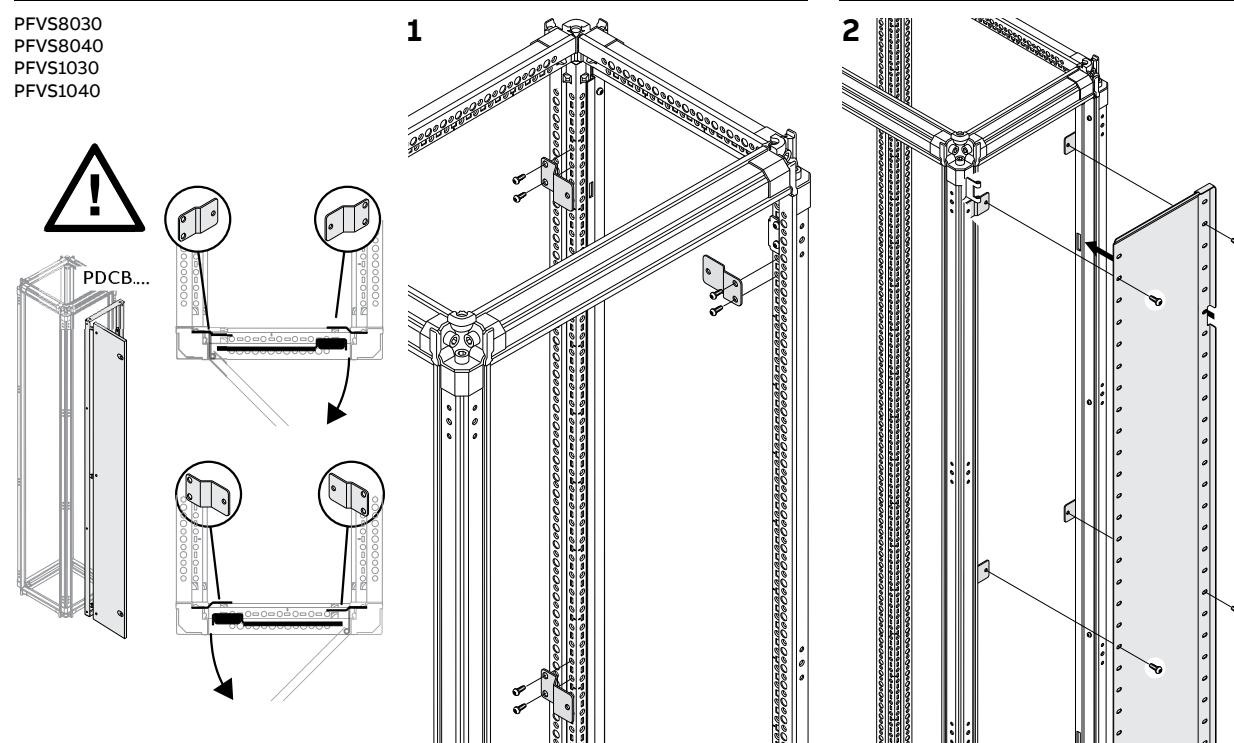
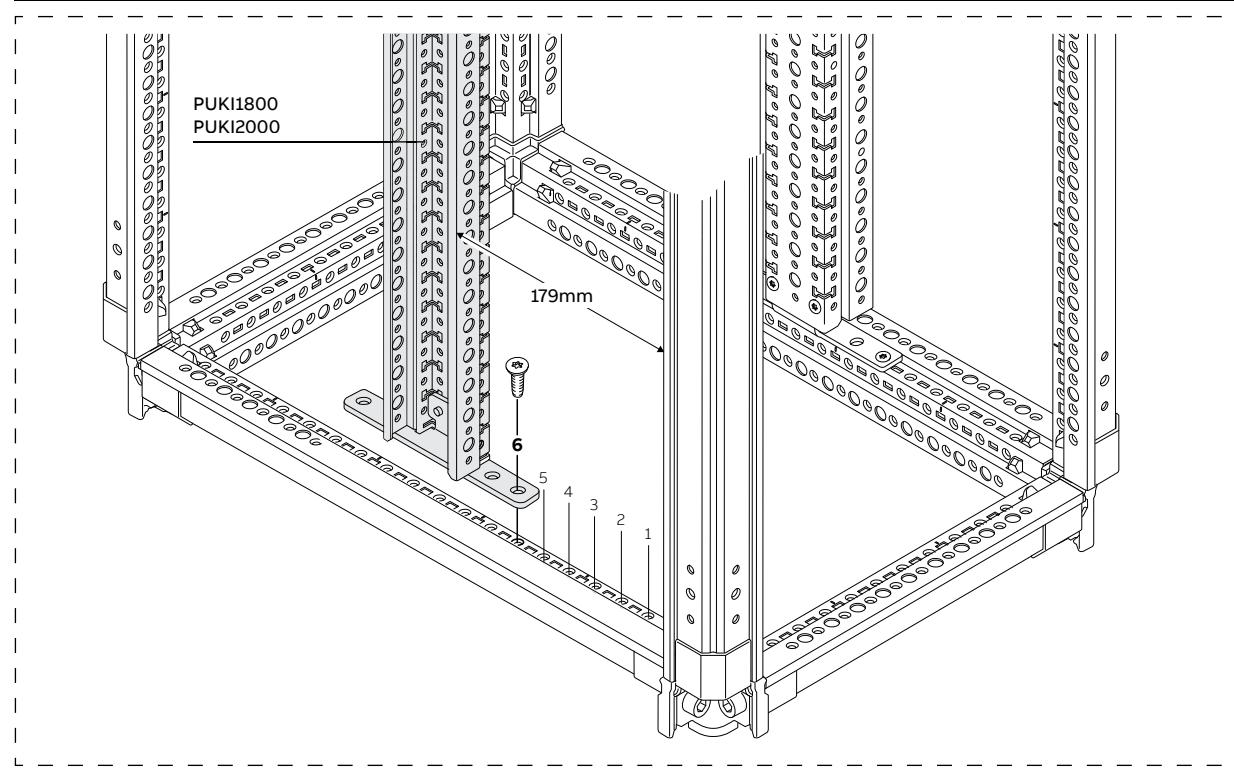


3x M6x10    20x Torx 30

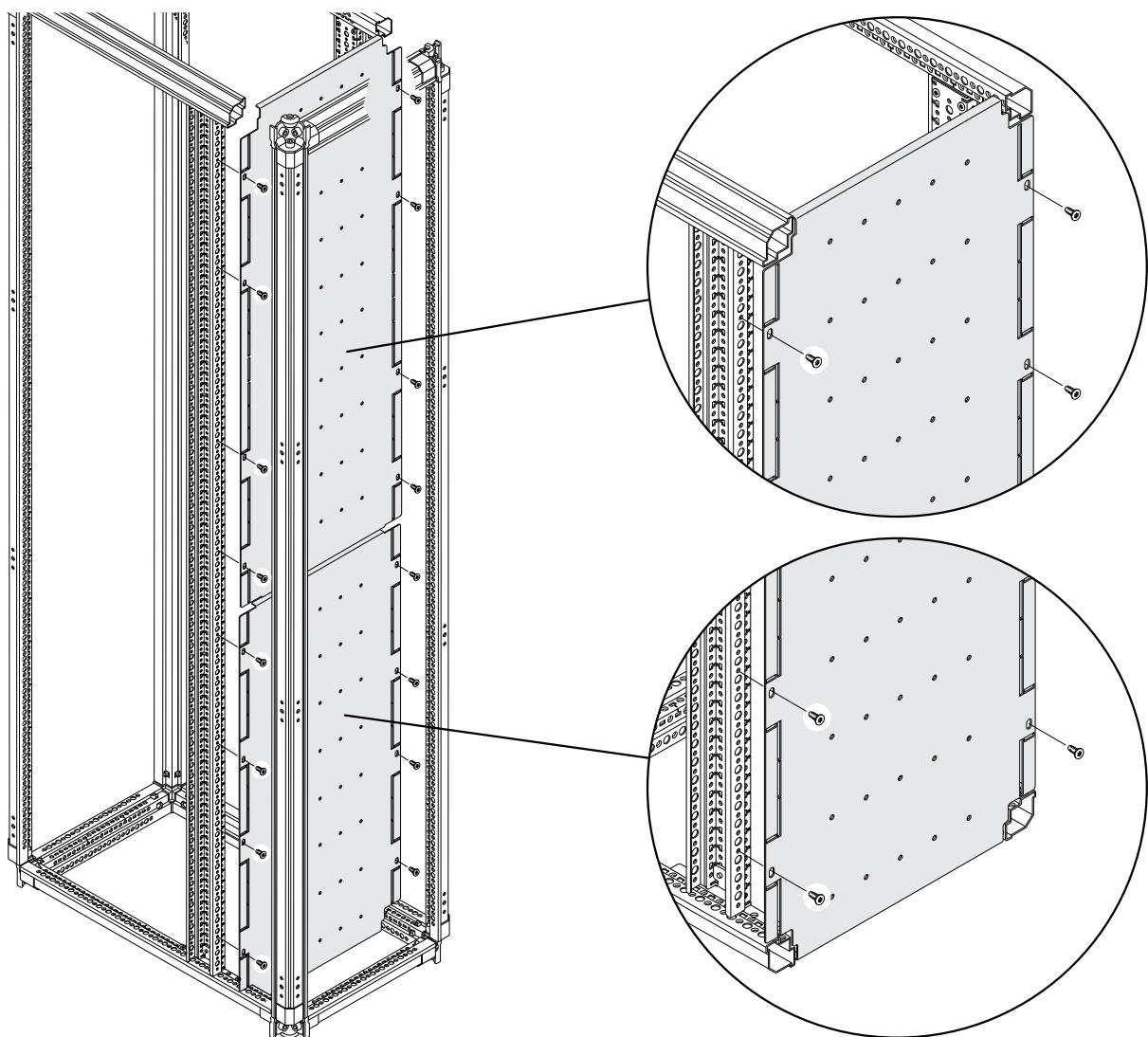
PFVS8032  
PFVS8042  
PFVS1032  
PFVS1042



16x M6x10    20x Torx 30

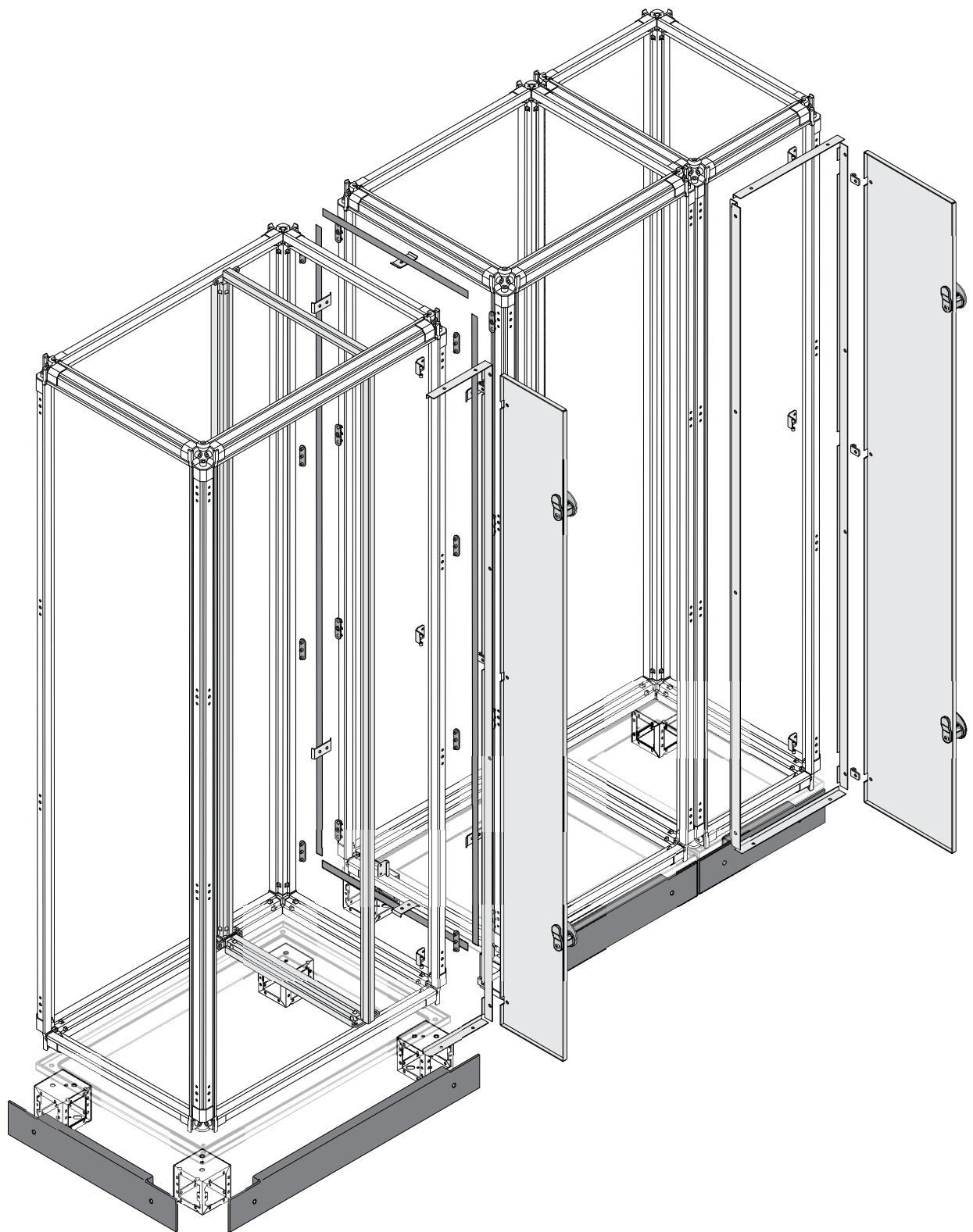


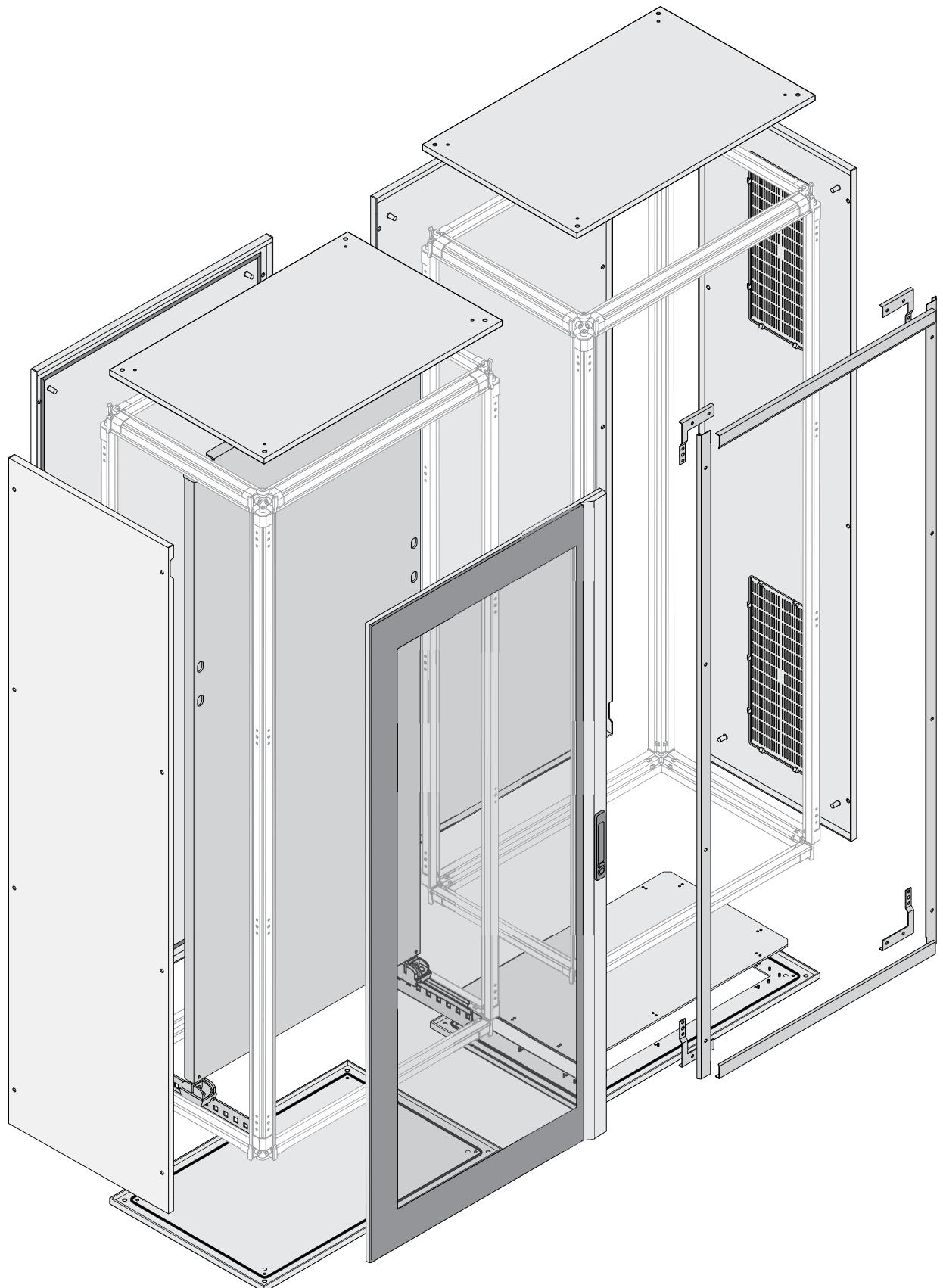
PFVS8032  
PFVS8042  
PFVS1032  
PFVS1042

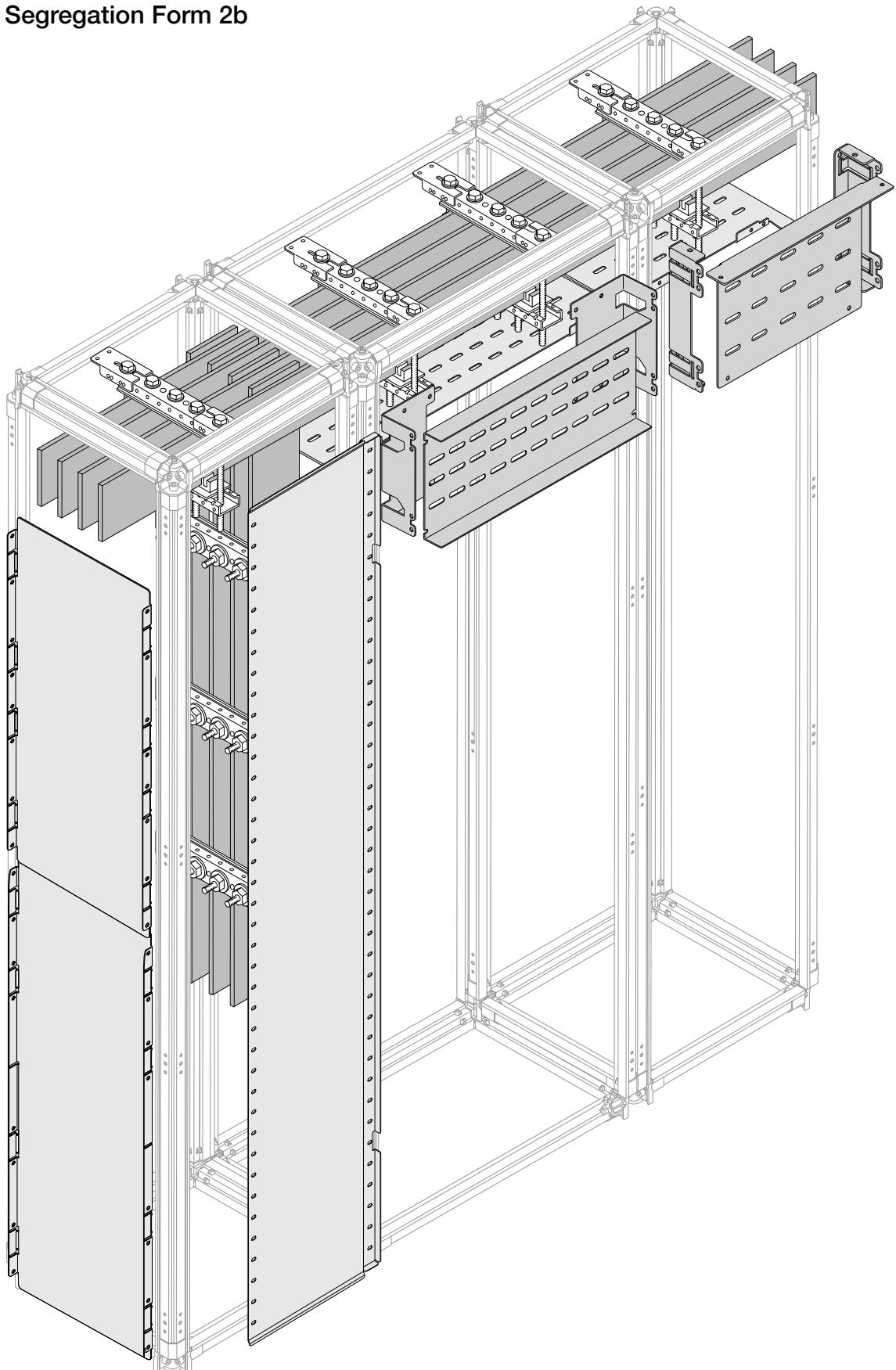


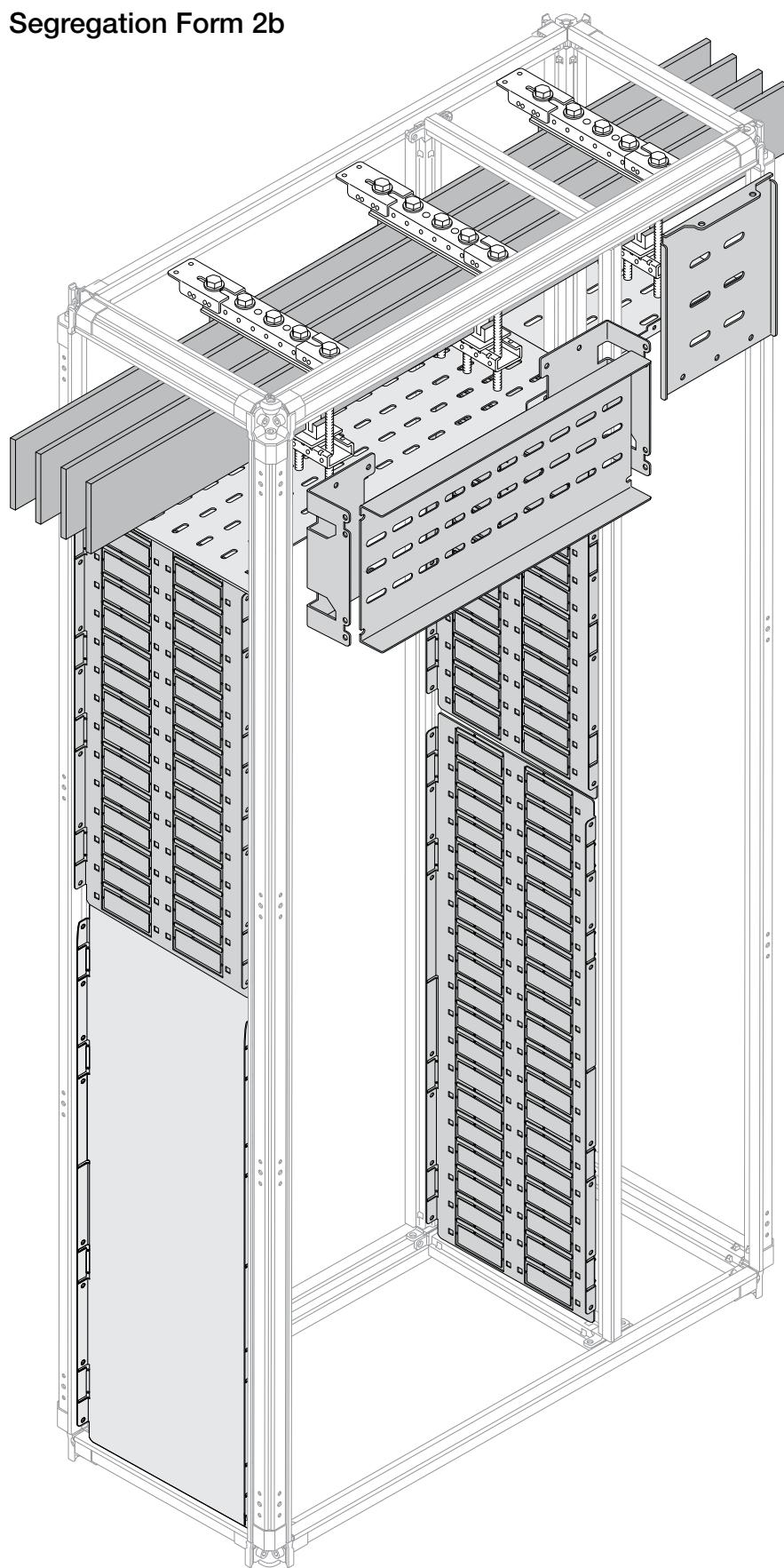
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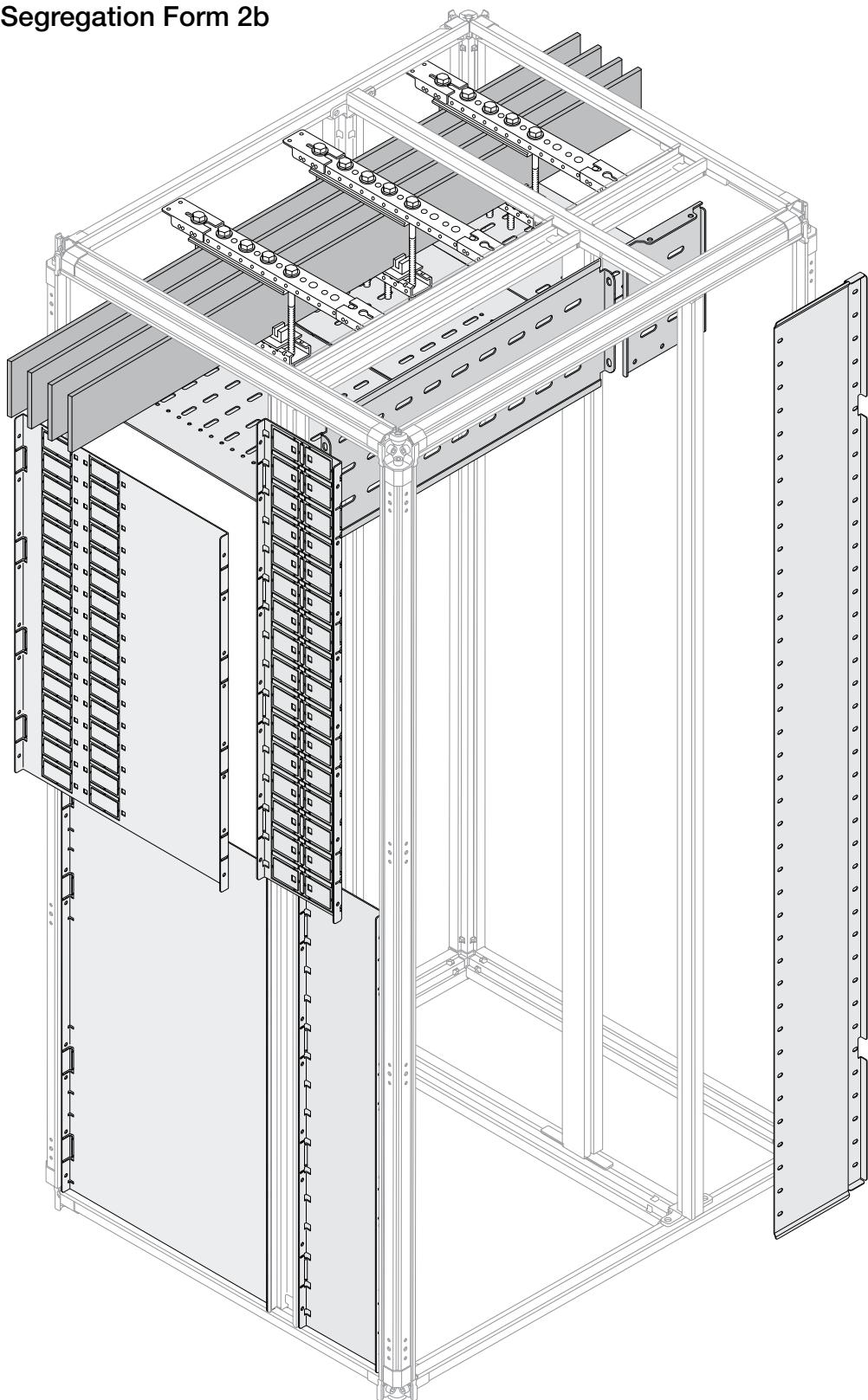
## Examples of use

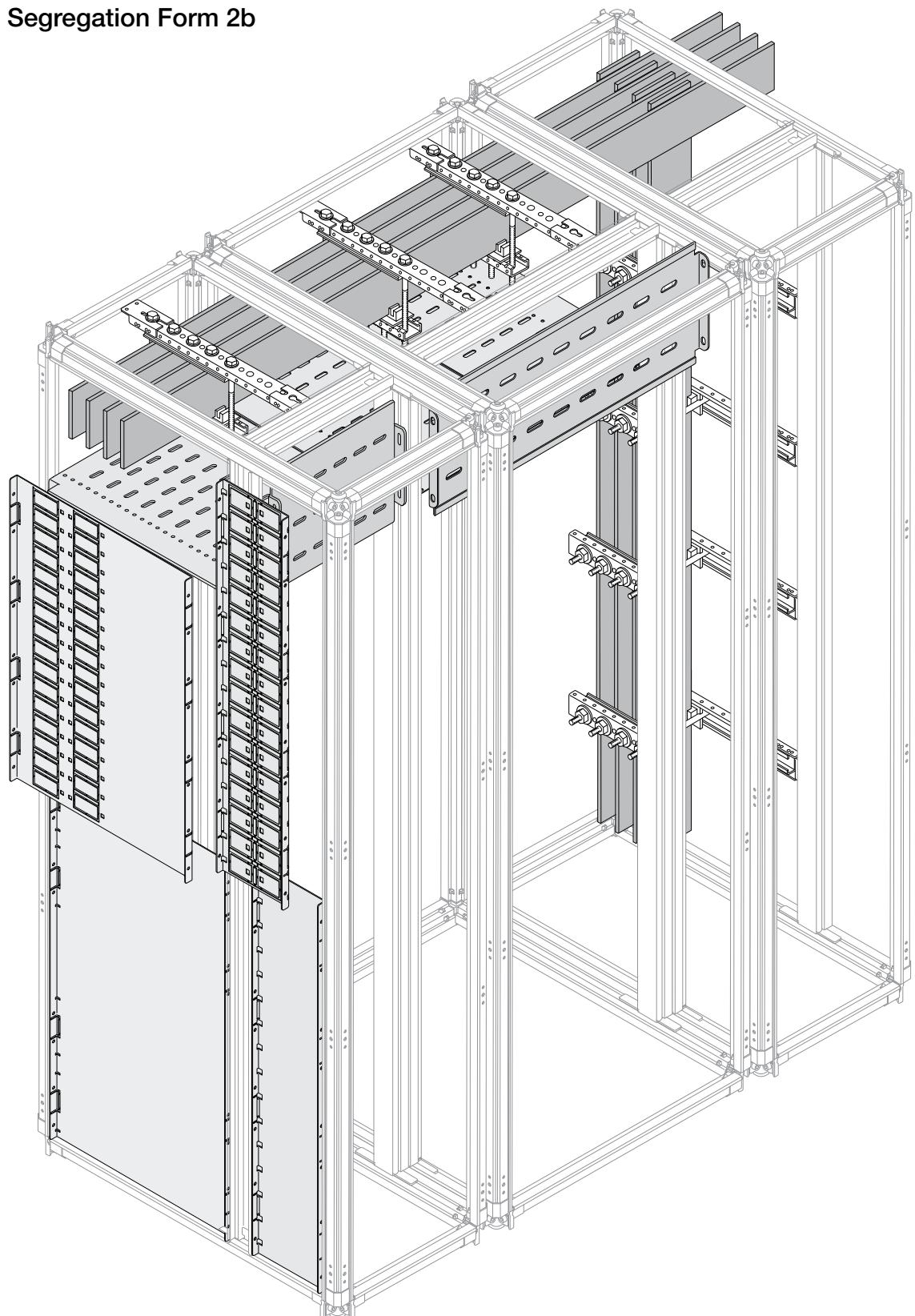


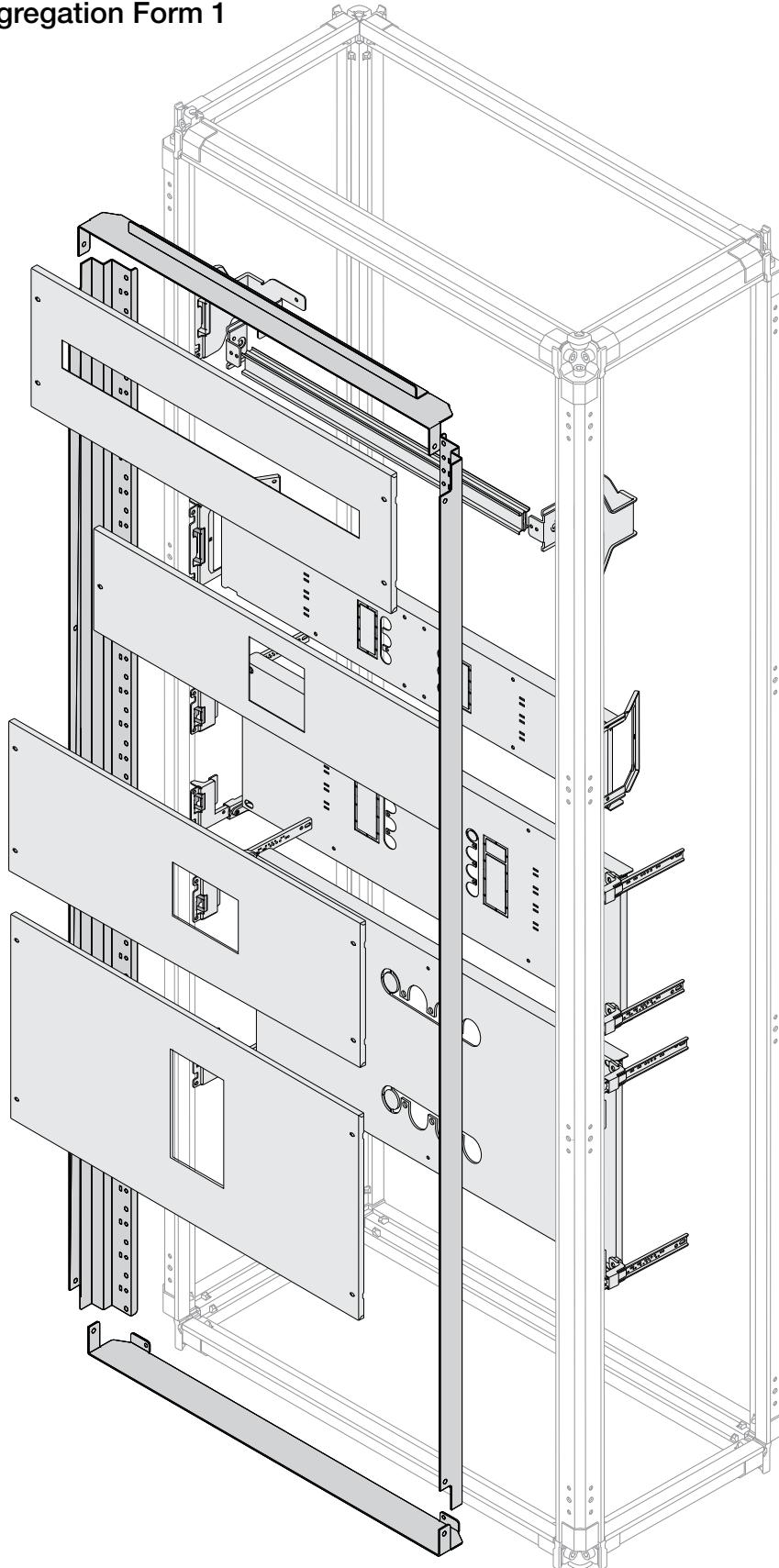


**Segregation Form 2b**

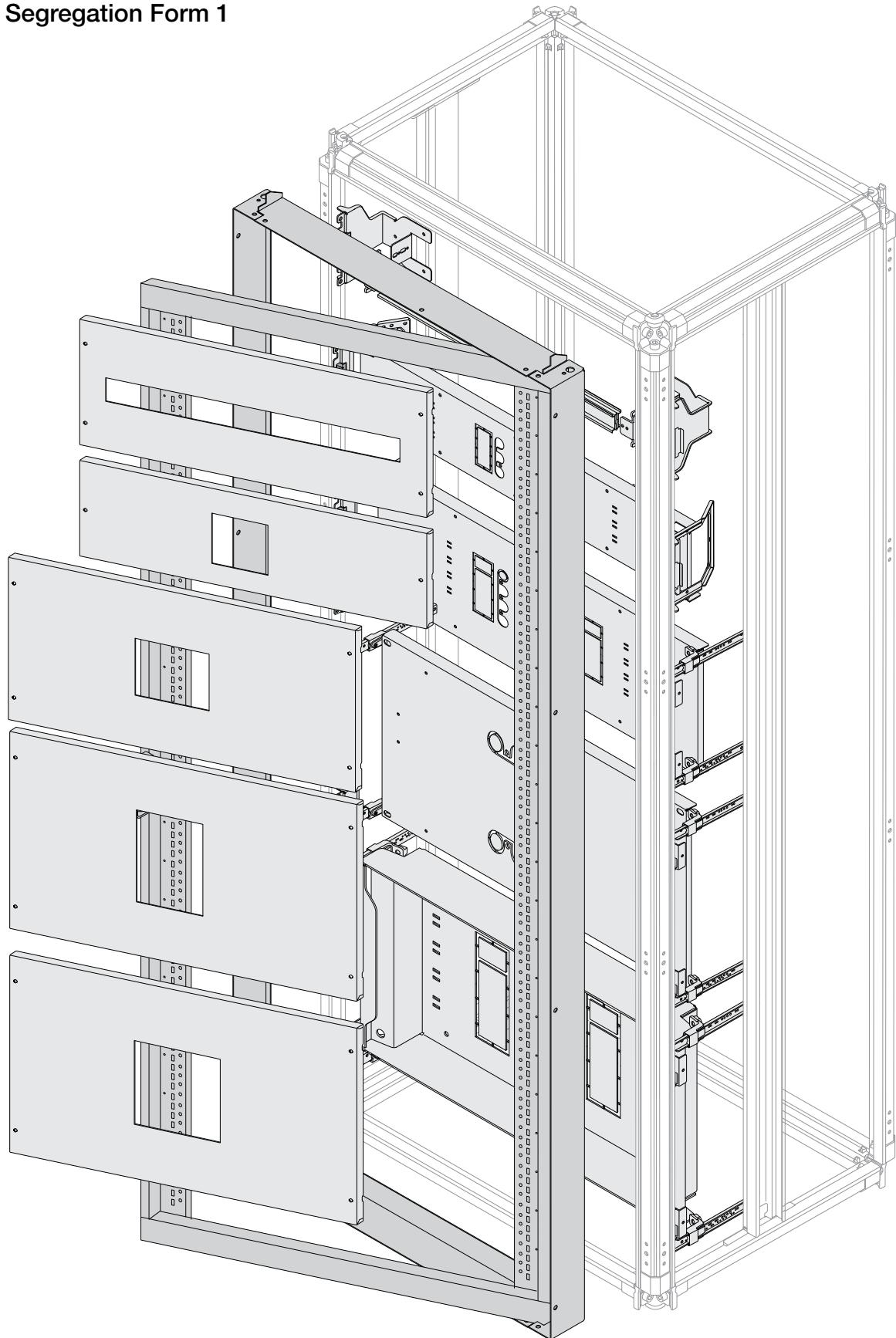
**Segregation Form 2b**

**Segregation Form 2b**

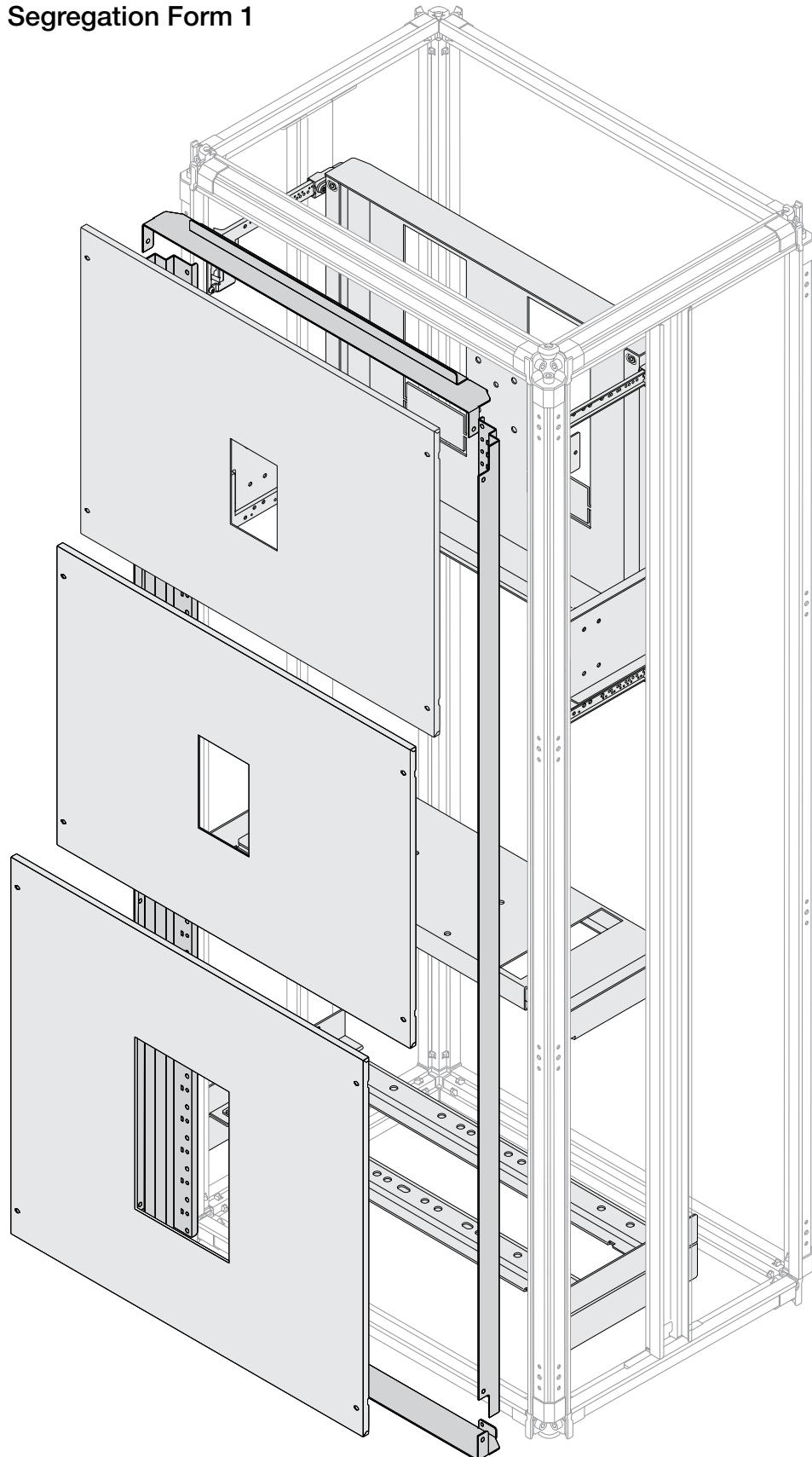
**Segregation Form 2b**

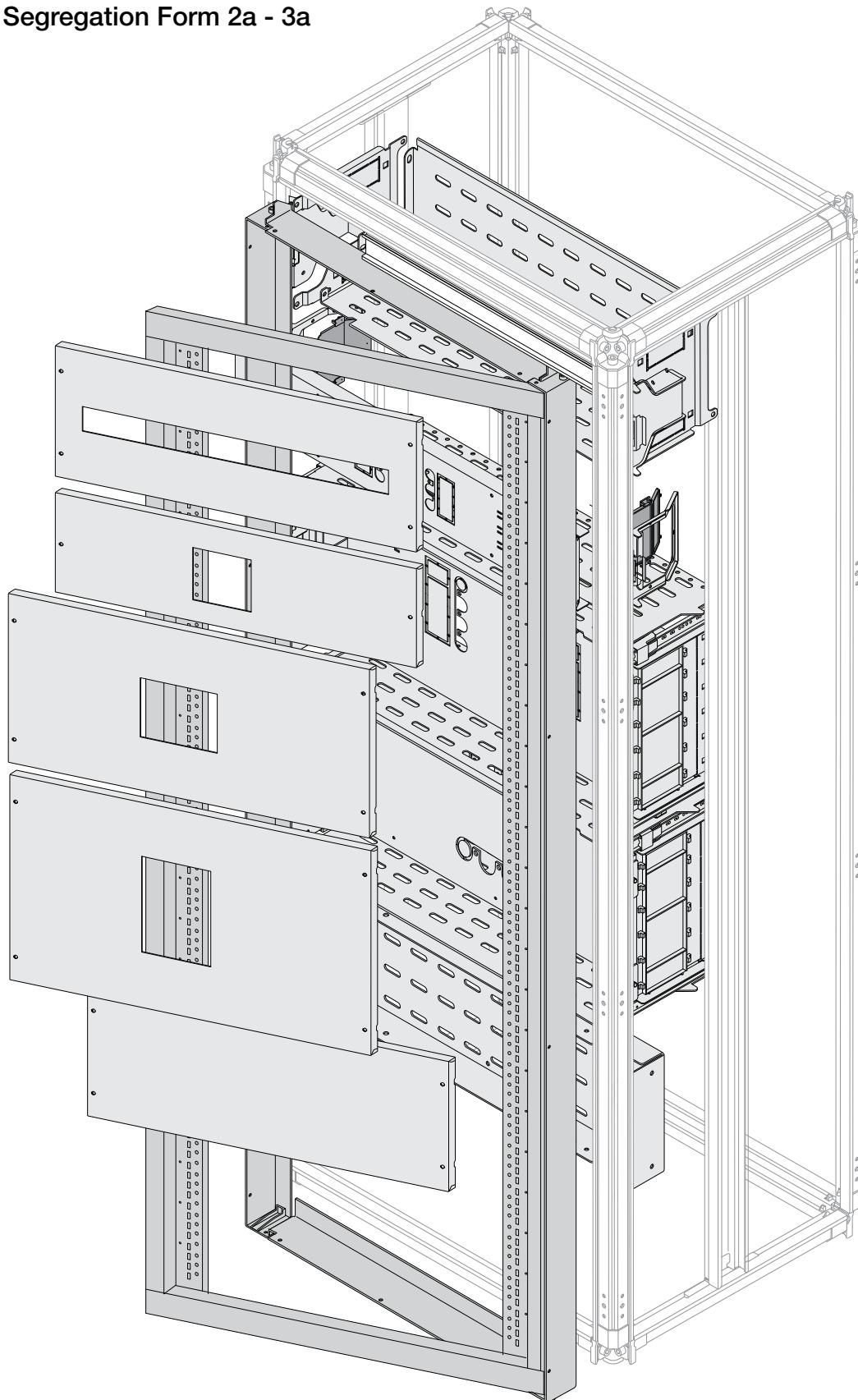
**Segregation Form 1**

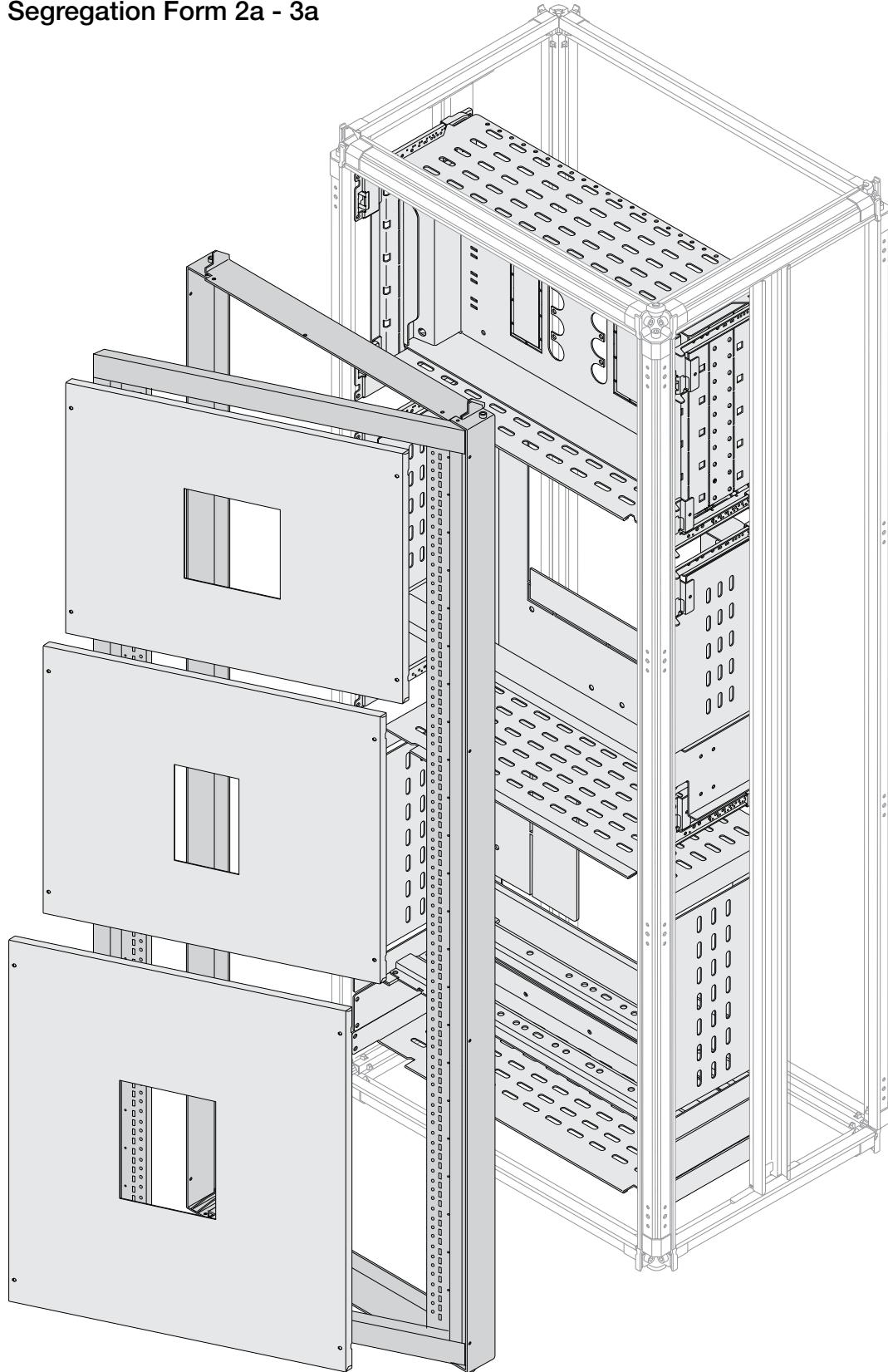
## Segregation Form 1

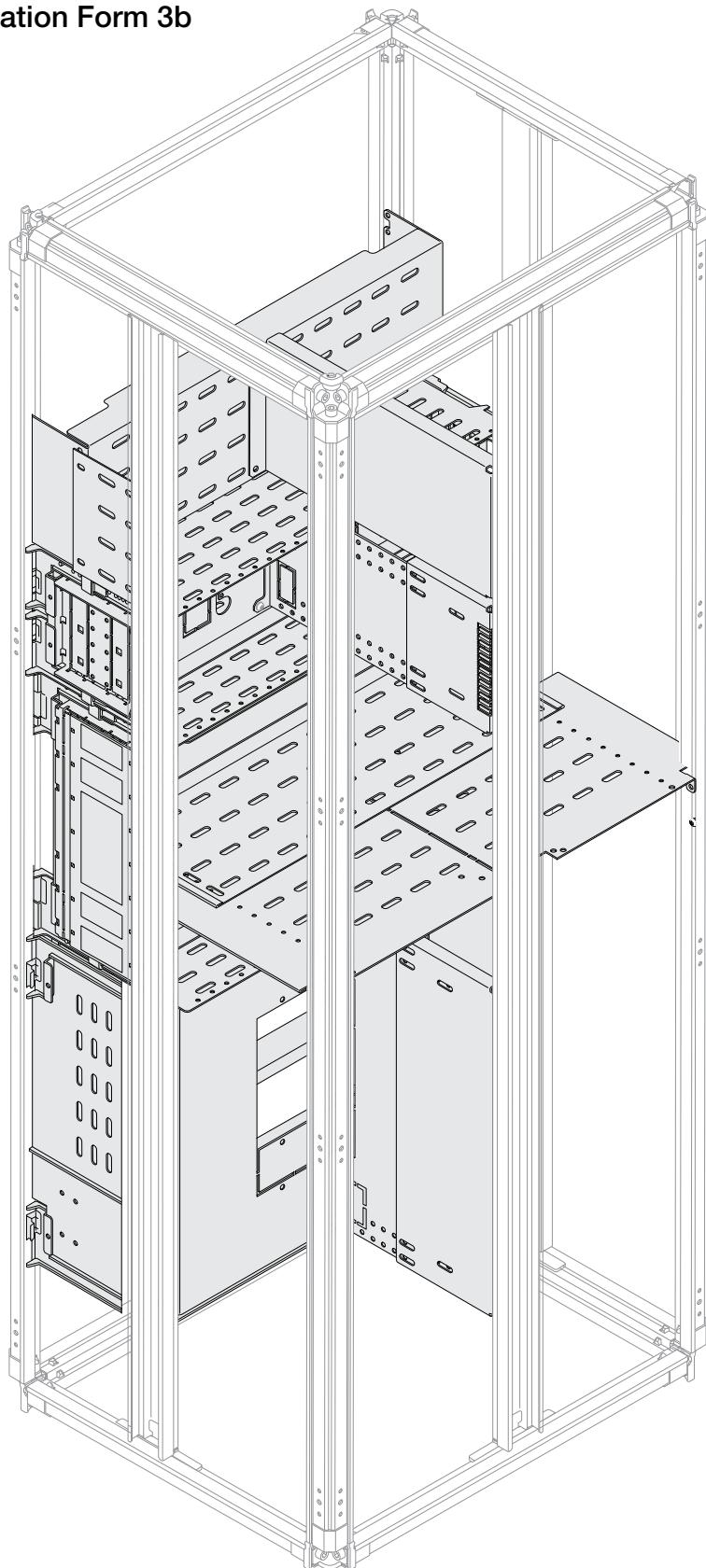


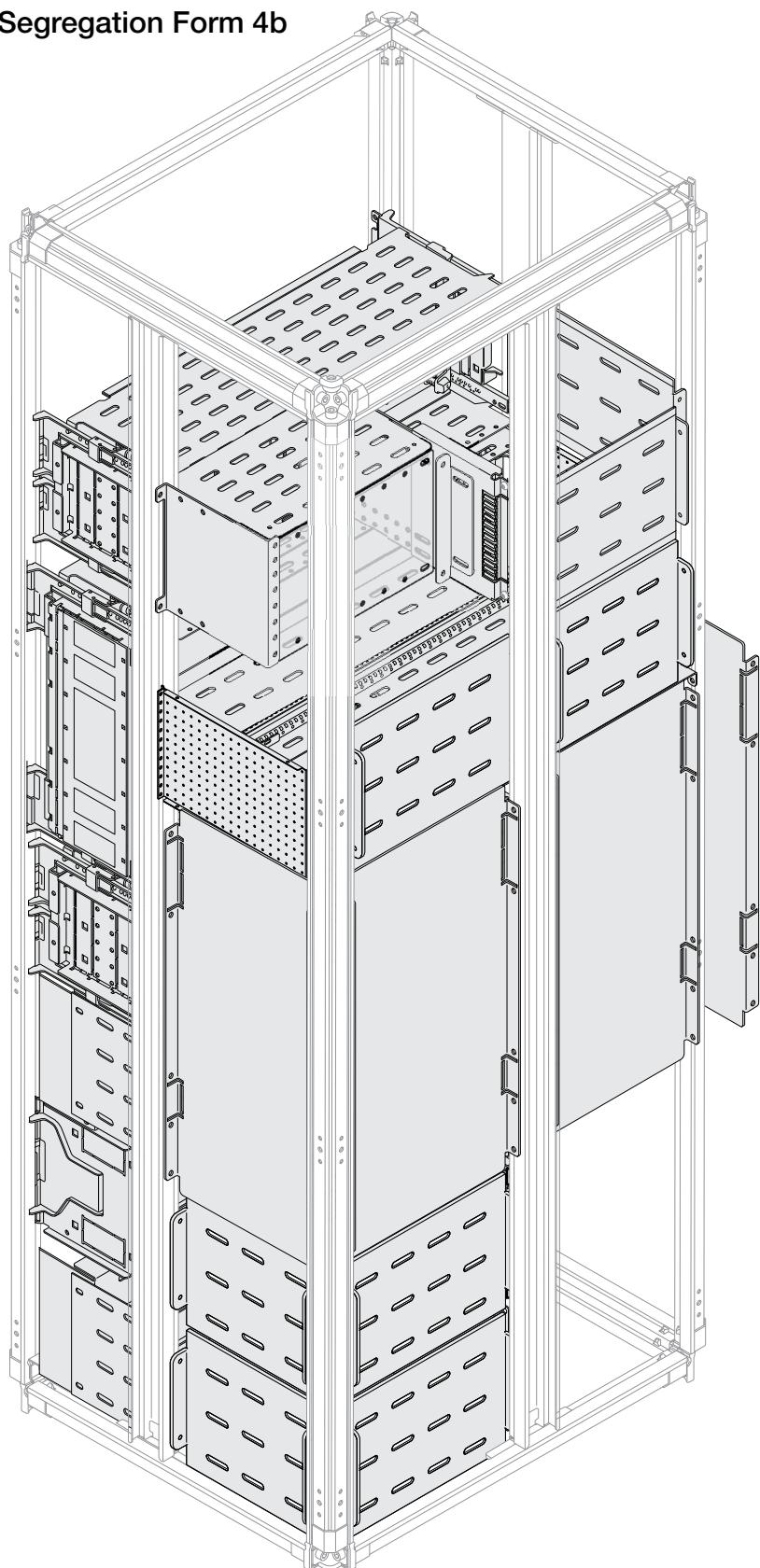
### Segregation Form 1

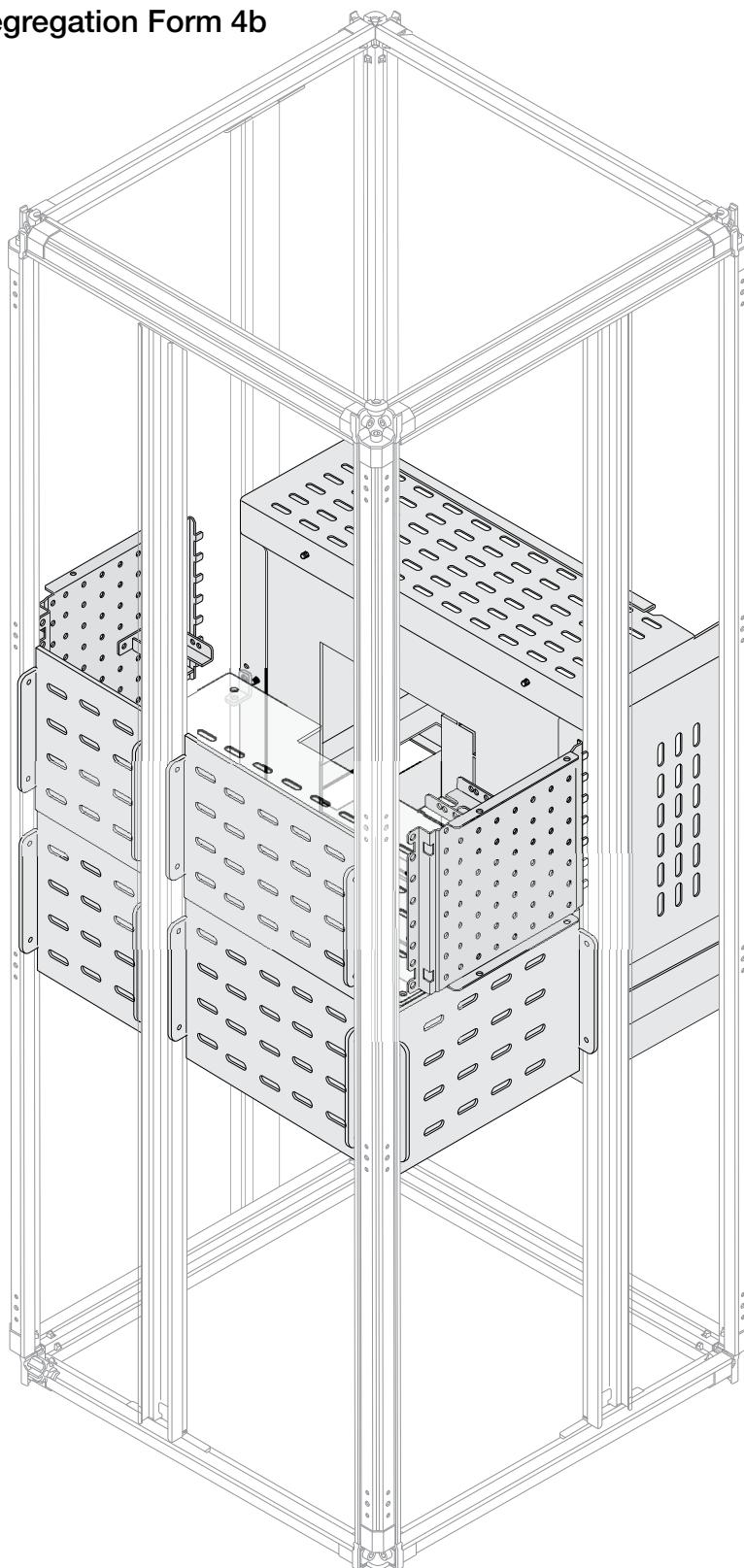


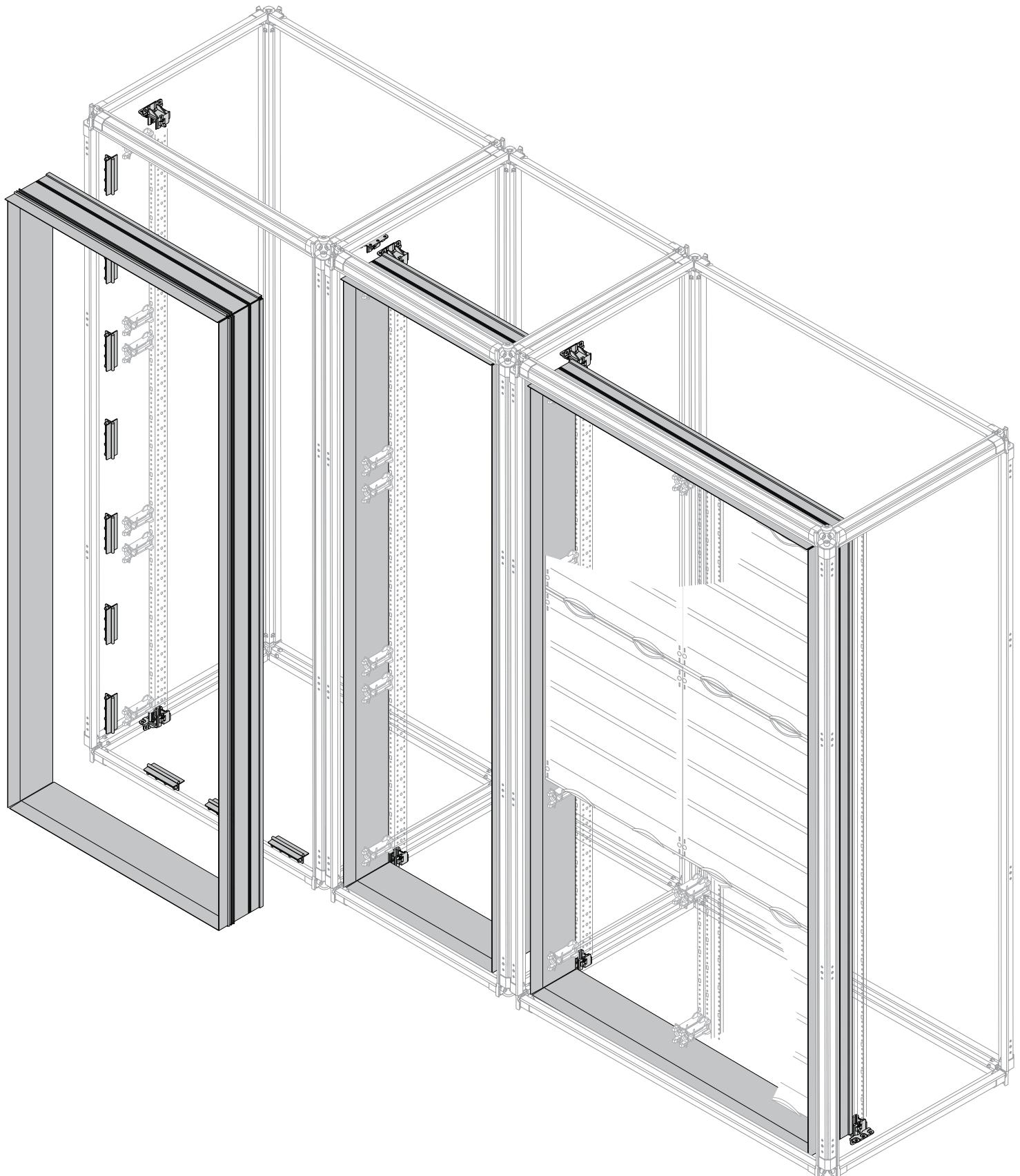
**Segregation Form 2a - 3a**

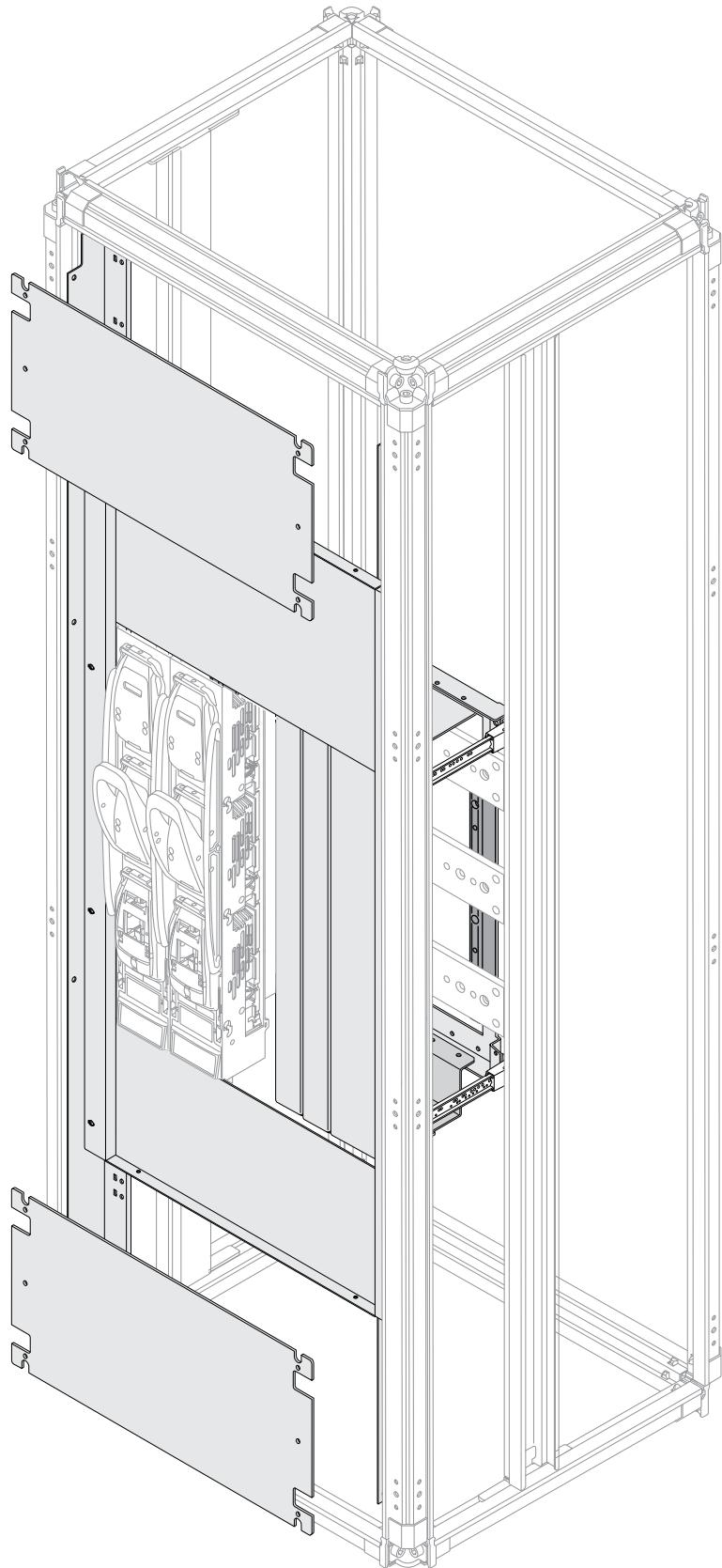
**Segregation Form 2a - 3a**

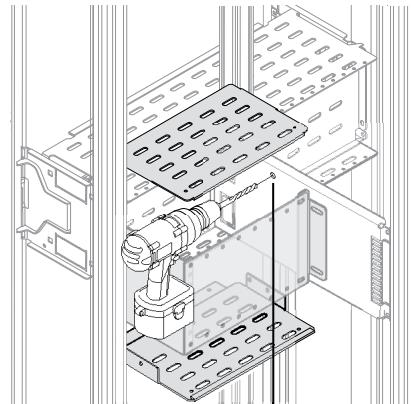
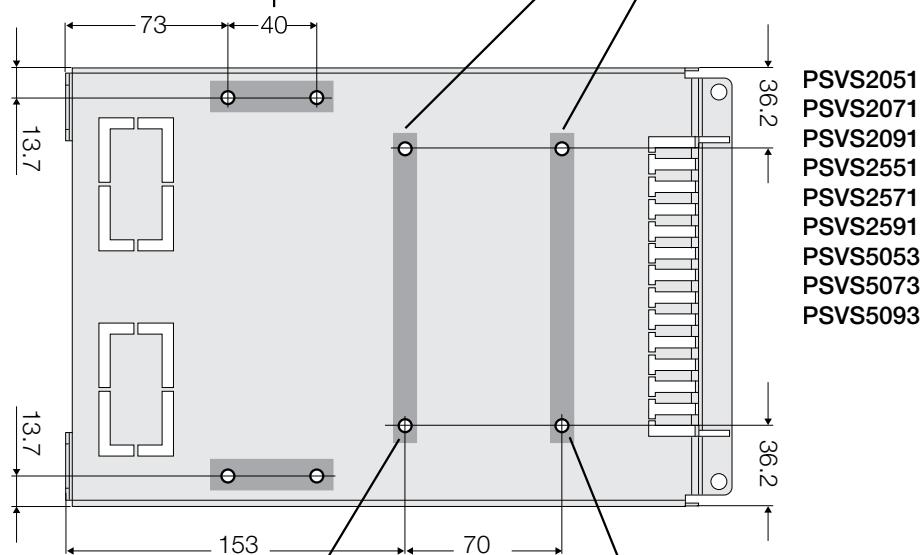
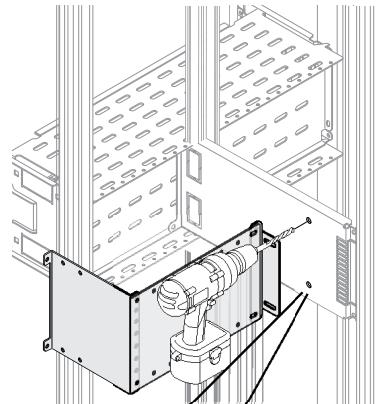
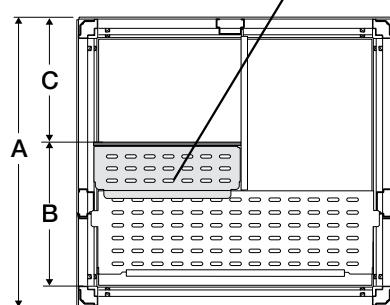
**Segregation Form 3b**

**Segregation Form 4b**

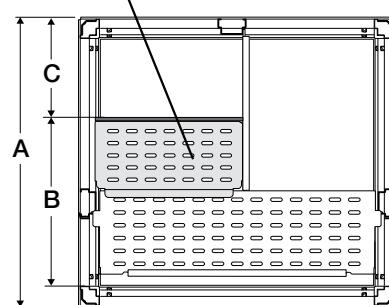
**Segregation Form 4b**





**PSVS.... (MO kit) - Segregation Form 4b****PSHS....****PVCS..P1 - PCVS..P2****P1**

A	B	C
599	364	190
699	364	390
999	364	590

**P2**

A	B	C
599	434	120
699	434	320
999	434	520



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**ABB S.p.A**  
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Due to possible developments of standards as well as of materials, the characteristics and dimensions specified in this document may only be considered binding after confirmation by ABB SACE.