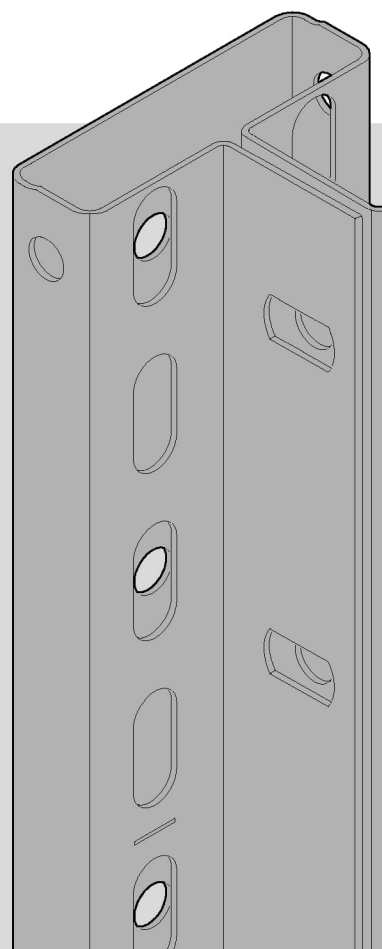


META CLIP System

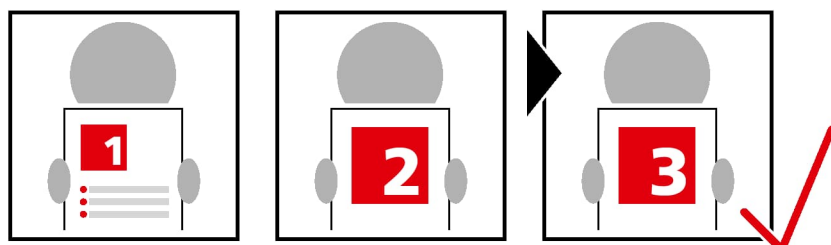


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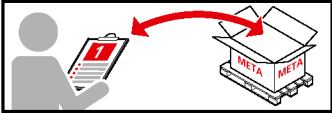
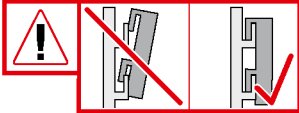


DE Montageanleitung

EN Installation instructions | FR Instructions de montage | IT Istruzioni per il montaggio | ES Instrucciones de montaje
PT Manual de montagem | DA Monteringsvejledning | NO Monteringsanvisning | SV Monteringsanvisning
FI Asennusohjeet | ET Paigaldusjuhend | LV Montāžas instrukcija | LT Montavimo instrukcija | PL Instrukcja montażu
CS Montážní návod | RU Инструкция по монтажу | UK Інструкція з монтажу | HU Szerelési utasítás | SK Návod na montáž
SL Navodila za montažo | SR Uputstvo za montažu | HR Upute za montažu | BS Uputstvo za montažu | RO Manual de montaj
BG Ръководство за монтаж | MK Упатства за монтажа | SQ Manuali i montimit



						
DE	GEFAHR	WARNUNG	VORSICHT	HINWEIS	Lieferumfang sichten.	Anzahl benötigte Personen.
EN	DANGER	WARNING	CAUTION	NOTE	View scope of delivery.	Number of persons required.
FR	DANGER	AVERTISSEMENT	PRUDENCE	REMARQUE	Inspecter le contenu de la livraison.	Nombre de personnes requises.
IT	PERICOLO	AVVERTENZA	ATTENZIONE	NOTA	Esaminare il volume di forniture.	Numero di persone necessarie.
ES	PELIGRO	ADVERTENCIA	PRECAUCIÓN	OBSERVACIÓN	Determinar el volumen de suministro.	Número de personas necesarias.
PT	PERIGO	AVISO	CUIDADO	INDICAÇÃO	Ver o volume de fornecimento.	Número de pessoas necessárias.
DA	FARE	ADVARSEL	FORSIGTIG	BEMÆRK	Kontrollér leveringsomfang.	Antal personer, der skal bruges.
NO	FARE	ADVARSEL	FORSIKTIG	MERK	Gå gjennom leveransen.	Nødvendig antall personer.
SV	FARA	VARNING	OBSERVERA	OBS	Kontrollera leveransomfattningen.	Antal personer som krävs.
FI	VAARA	VAROITUS	VARO	OHJE	Tarkasta toimituksen sisältö.	Tarvittavien henkilöiden määrä.
ET	OHT	HOIATUS	ETTEVAATUST	MÄRKUS	Kontrollige tarnemahtu.	Vajalike isikute hulk.
LV	BĪSTAMI!	BRĪDINĀJUMS!	UZMANĪBU!	NORĀDE!	Skatiet piegādes komplektu.	Nepieciešamo personu skaits.
LT	PAVOJUS	ĮSPĖJIMAS	ATSARGIAI	NURODYMAS	Komplekto sudėties peržiūra.	Reikalingų asmenų skaičius.
PL	NIEBEZPIECZEŃSTWO	OSTRZEŻENIE	OSTROŻNIE	WSKAZÓWKA	Sprawdzić zakres dostawy.	Liczba potrzebnych osób.
CS	NEBEZPEČÍ	VAROVÁNÍ	POZOR	UPOZORNĚNÍ	Prohlédněte rozsah dodávky.	Počet potřebných osob.
RU	ОПАСНОСТЬ	ОСТОРОЖНО	ВНИМАНИЕ	УКАЗАНИЕ	Проверьте объем поставки.	Необходимое количество сотрудников.
UK	НЕБЕЗПЕКА	ПОПЕРЕДЖЕННЯ	ОБЕРЕЖНО	УВАГА	Перегляньте комплект доставки.	Необхідну кількість осіб.
HU	VESZÉLY	FIGYELMEZTETÉS	VIGYÁZAT	ÉRTESÍTÉS	Ellenőrizze a szállítási terjedelmet.	Szükséges személyek száma.
SK	NEBEZPEČENSTVO	VÝSTRAHA	OPATRNE	UPOZORNENIE	Skontrolovať rozsah dodávky.	Potrebný počet osôb.
SL	NEVARNOST	OPOZORILO	PREVIDNO	POZOR	Pregled obsega dobave.	Zahtevano število oseb.
SR	OPASNOST	UPOZORENJE	OPREZ	NAPOMENA	Pregledati obim isporuke.	Broj potrebnih osoba.
HR	OPASNOST	UPOZORENJE	OPREZ	NAPOMENA	Pregledajte opseg isporuke.	Broj osoba potrebnih za sastavljanje.
BS	OPASNOST	UPOZORENJE	OPREZ	NAPOMENA	Pogledati obim isporuke.	Broj potrebnih osoba.
RO	PERICOL	AVERTISMENT	PRECAUȚIE	INDICAȚIE	Verificați pachetul de livrare.	Numărul de persoane necesare.
BG	ОПАСНОСТ	ПРЕДУПРЕЖДЕНИЕ	ВНИМАНИЕ	УКАЗАНИЕ	Проверка на доставката.	Брой необходими хора.
MK	ОПАСНОСТ	ПРЕДУПРЕДУВАЊЕ	ПРЕТПАЗЛИВО	НАПОМЕНА	Видете ја содржината на достава.	Број на потребни лица.
SQ	RREZIK	PARALAJMËRIM	KUJDES	UDHËZIM	Shqyrto shtrirjen e dërgimit.	Numri i personave të nevojshëm.

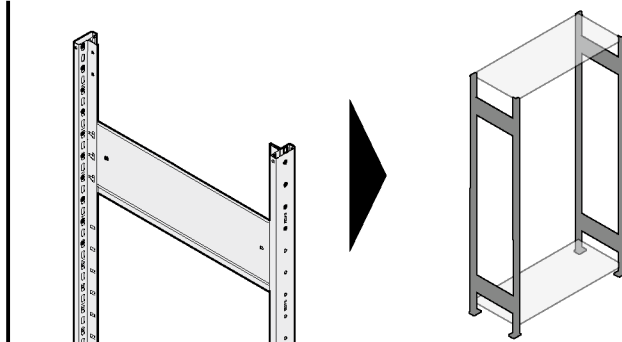
			
Benötigt Werkzeug.	Abgleich Lieferumfang mit Lieferschein.	WARNUNG. Sachschaden. Richtigen Einbau beachten.	WARNUNG. Verletzungsgefahr. Schutzhandschuhe tragen.
Required tools.	Compare scope of delivery with delivery note.	WARNING. Damage to property. Make sure that installation is performed correctly.	WARNING. Risk of injury. Wear protective gloves.
Outils indispensable.	Comparer le contenu de la livraison avec le bon de livraison.	AVERTISSEMENT. Dégât matériel. Respecter le montage conforme.	AVERTISSEMENT. Risque de blessure. Porter des gants de protection.
Attrezzi necessari.	Confronto volume di fornitura con bolla di consegna.	AVVERTENZA. Danni materiali. Attenersi alla corretta procedura di montaggio.	AVVERTENZA. Pericolo di lesioni. Indossare guanti da lavoro.
Herramienta necesaria.	Cotejo del volumen de suministro con el albarán de entrega.	ADVERTENCIA. Daños materiales. Respete la instalación correcta.	ADVERTENCIA. Peligro de lesiones. Utilice guantes de seguridad.
Ferramentas necessárias.	Comparação do volume de fornecimento com a guia de remessa.	AVISO. Danos materiais. Respeitar uma montagem correta.	AVISO. Perigo de ferimentos. Usar luvas de proteção.
Krævet værktøj.	Sammenlign leveringsomfanget med følgesedlen.	ADVARSEL. Materielle skader. Sørg for korrekt montering.	ADVARSEL. Fare for at komme til skade. Bær beskyttelseshandsker.
Nødvendig verktøy.	Kontroller leveranse mot følgeseddel.	ADVARSEL. Materialskader. Pass på riktig montering.	ADVARSEL. Fare for personskader. Ha på vernehansker.
Verktyg som krävs.	Jämförelse av leveransomfattningen med följesedeln.	VARNING. Materiella skador. Observera korrekt installation.	VARNING. Risk för personskada. Bär skyddshandskar.
Tarvittavat työkalut.	Toimituksen sisällön vertaaminen lähetyksluetteloon.	VAROITUS. Esinevahingot. Huomioi oikea asennus.	VAROITUS. Loukkaantumisvaara. Käytä suojakäsineitä.
Vajalikud tööriistad.	Tarnemahu võrdlemine saatelehega.	HOIATUS. Materiaalne kahju. Pöörake tähelepanu õigele paigaldusele.	HOIATUS. Vigastusohu. Kandke kaitsekindaid.
Nepieciešamais instruments.	Salīdziniet piegādes komplekta saturu ar preču pavadzīmi.	BRĪDINĀJUMS! Mantu bojājumi. Ievērojiet norādījumus, lai veiktu pareizu uzstādīšanu.	BRĪDINĀJUMS! Savainojumu risks. Izmantojiet aizsargcimdus.
Reikalingi įrankiai.	Komplekto sudėties patikrinimas su važtaraščiu.	ĮSPĖJIMAS. Turtinė žala. Sumontuokite teisingai.	ĮSPĖJIMAS. Pavojus susižeisti. Dėvėkite apsaugines pirštines.
Potrzebne narzędzie.	Porównanie zakresu dostawy z dokumentem dostawy.	OSTRZEŻENIE. Szkody materialne. Zwrócić uwagę na prawidłowy montaż.	OSTRZEŻENIE. Niebezpieczeństwo odniesienia obrażeń. Nosić rękawice ochronne.
Potřebné nástroje.	Porovnání rozsahu dodávky s dodacím listem.	VAROVÁNÍ. Věcné škody. Věnujte pozornost správné montáži.	VAROVÁNÍ. Nebezpečí poranění. Používejte ochranné rukavice.
Необходимый инструмент.	Сравнение объема поставки с товарно-транспортной накладной.	ОСТОРОЖНО. Материальный ущерб. Соблюдайте правильный порядок монтажа.	ОСТОРОЖНО. Опасность травмирования. Надевайте защитные перчатки.
Необхідні інструменти.	Звірте комплект доставки з накладною.	ПОПЕРЕДЖЕННЯ. Матеріальна шкода. Дотримуйтеся правильного порядку монтажу.	ПОПЕРЕДЖЕННЯ. Небезпека травмування. Одягайте захисні рукавички.
Szükséges szerszám.	Vesse össze a szállítási terjedelmet a szállítólevéllel.	FIGYELMEZTETÉS. Anyagi károk. Ügyeljen a helyes beszerelésre.	FIGYELMEZTETÉS. Sérülésveszély. Védőkesztyű használatra kötelező.
Potrebné náradie.	Porovnanie rozsahu dodávky s dodacím listom.	VÝSTRAHA. Škody na majetku. Dbajte na správnú montáž.	VÝSTRAHA. Nebezpečenstvo poranenia. Používajte ochranné rukavice.
Zahtevano orodje.	Primerjava obsega dobave z dobavnico.	OPOZORILO. Nevarnost materialne škode. Upoštevajte pravilno vgradnjo.	OPOZORILO. Nevarnost telesnih poškodb. Uporabljajte zaščitne rokavice.
Potreban alat.	Uporediti obim isporuke sa dostavnicom.	UPOZORENJE. Materijalna šteta. Pridržavati se ispravne ugradnje.	UPOZORENJE. Opasnost od povreda. Nositi zaštitne rukavice.
Potreban alat.	Usporedba opsega isporuke s dostavnicom.	UPOZORENJE. Materijalna šteta. Obratite pozornost na pravilnu ugradnju.	UPOZORENJE. Opasnost od ozljeda. Nosite zaštitne rukavice.
Potreban alat.	Poređenje obima isporuke sa otpremnicom.	UPOZORENJE. Materijalna šteta. Obratite pažnju na ispravnu instalaciju.	UPOZORENJE. Opasnost od ozljeda. Nosite zaštitne rukavice.
Instrument necesar.	Comparație între pachetul de livrare și foaia de livrare.	AVERTISMENT. Daune materiale. Respectați instrucțiunile de montare corespunzătoare.	AVERTISMENT. Pericol de vătămare. Purtați mănuși de protecție.
Необходимы инструменты.	Сравнение на доставените продукти и описанието върху товарителницата.	ПРЕДУПРЕЖДЕНИЕ. Материална щета. Обърнете внимание на правилния монтаж.	ПРЕДУПРЕЖДЕНИЕ. Опасност от нараняване. Носете предпазни ръкавици.
Потребен алат.	Споредете ја содржината на достава со испратницата.	ПРЕДУПРЕДУВАЊЕ. Материјални штети. Внимавајте на правилната монтажа.	ПРЕДУПРЕДУВАЊЕ. Опасност за повреди. Носете заштитни ракавици.
Mjet i nevojshëm pune.	Krahasimi i shtrirjes së dërgimit me fletëlvërimin.	PARALAJMËRIM! Dëm material. Mbani parasysh montimin e saktë.	PARALAJMËRIM! Rrezik për lëndim. Mbani doreza mbrojtëse.

i



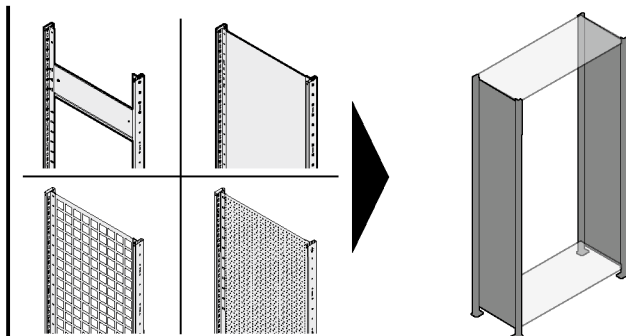
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META S3



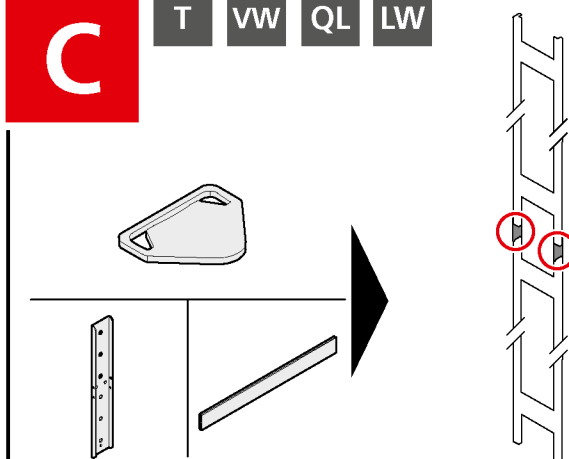
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T VW QL LW

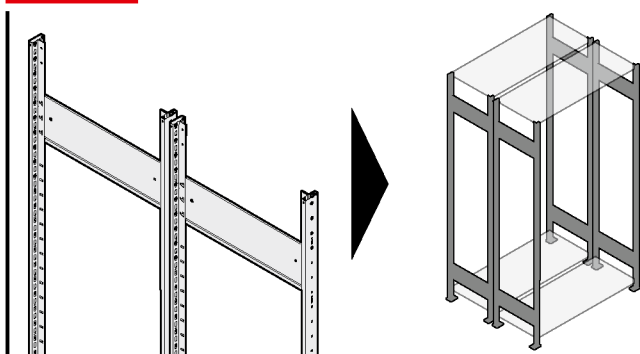


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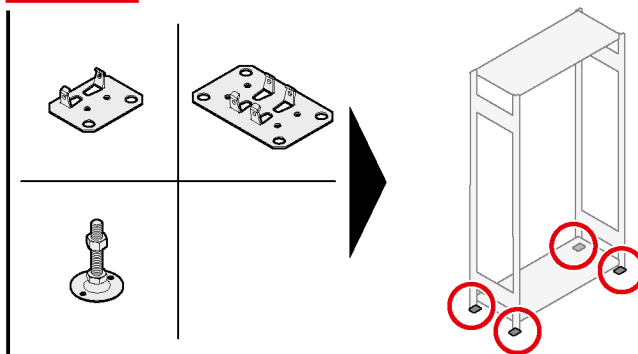
T VW QL LW



D

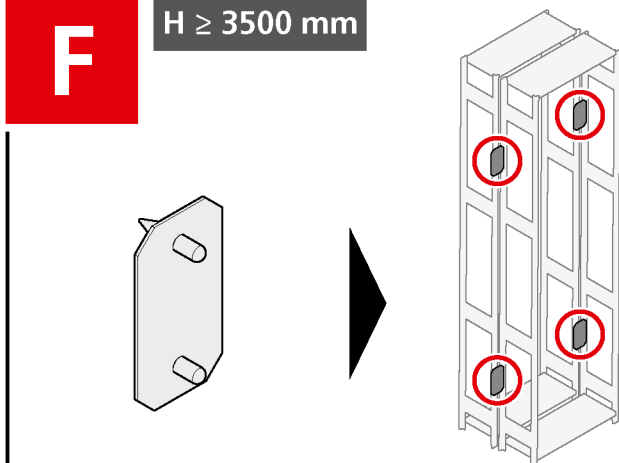


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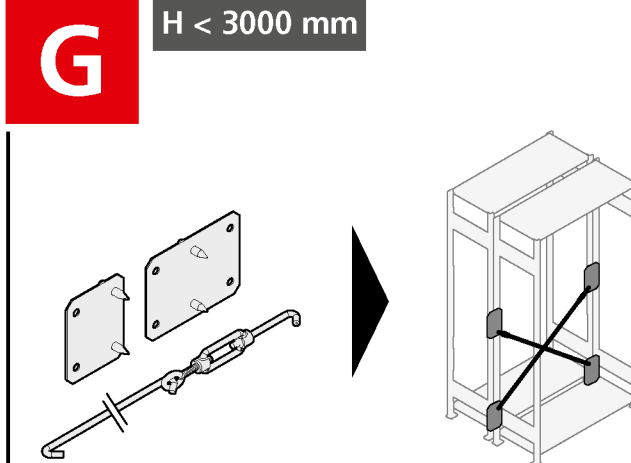
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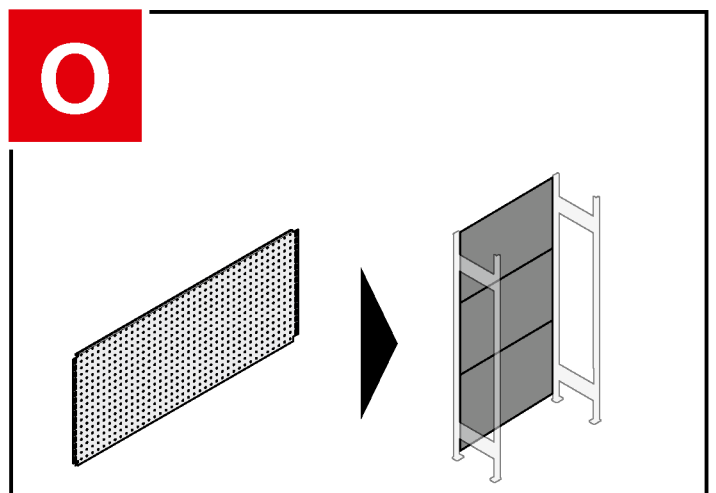
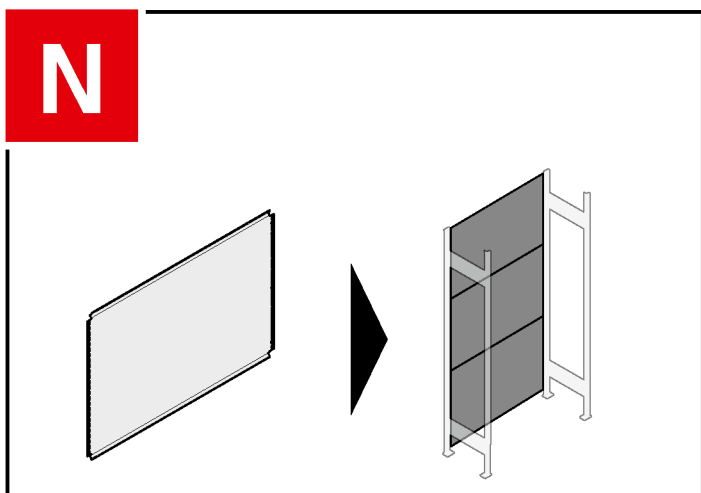
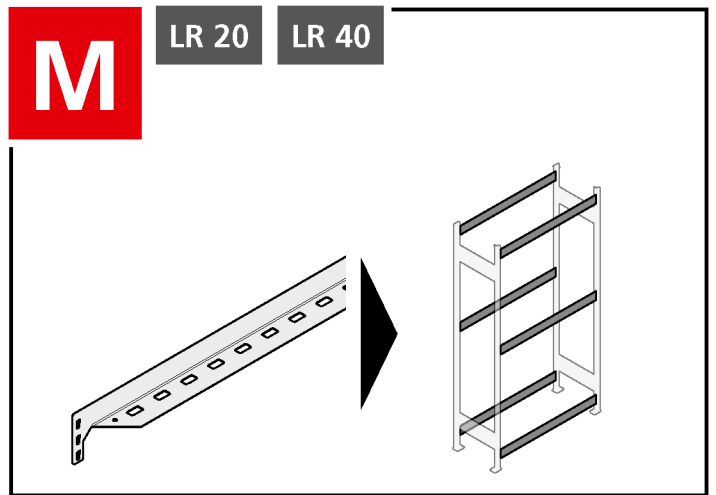
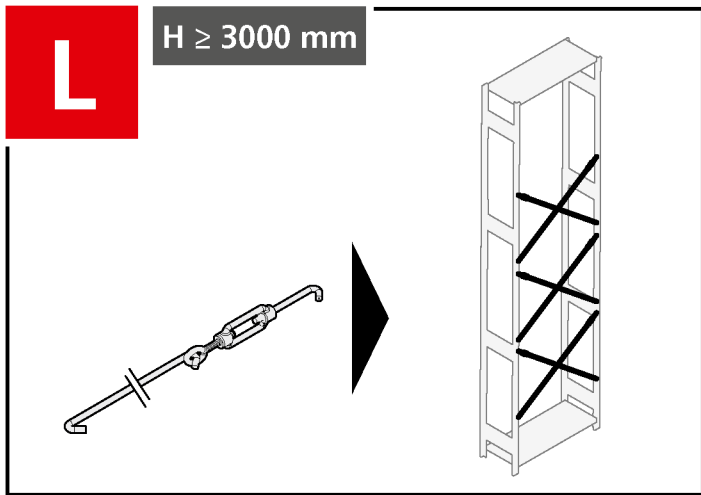
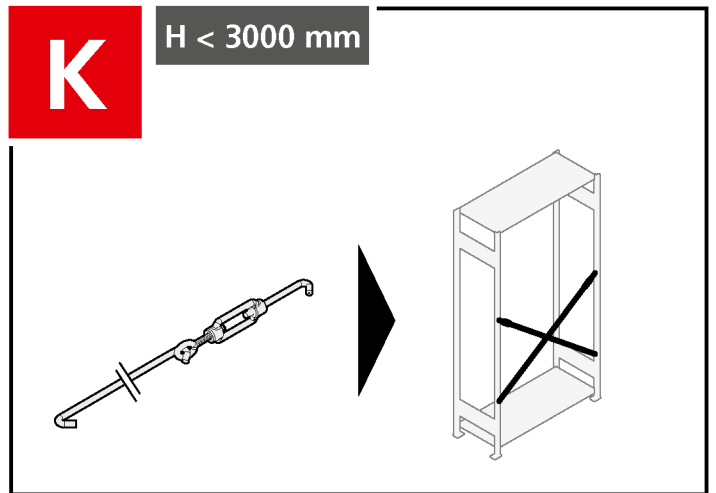
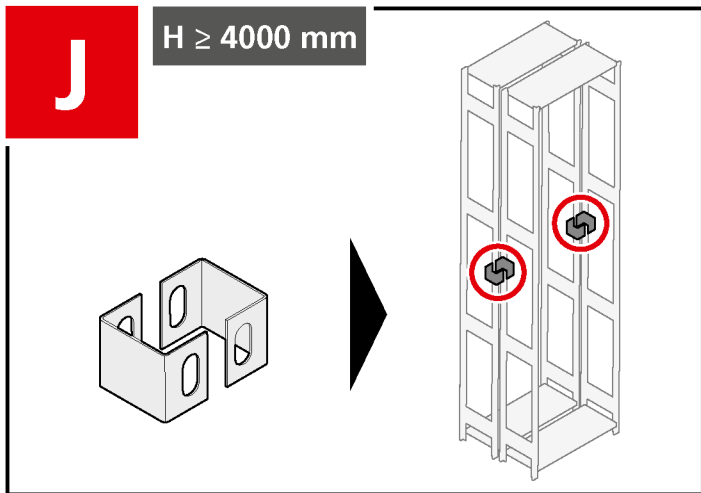
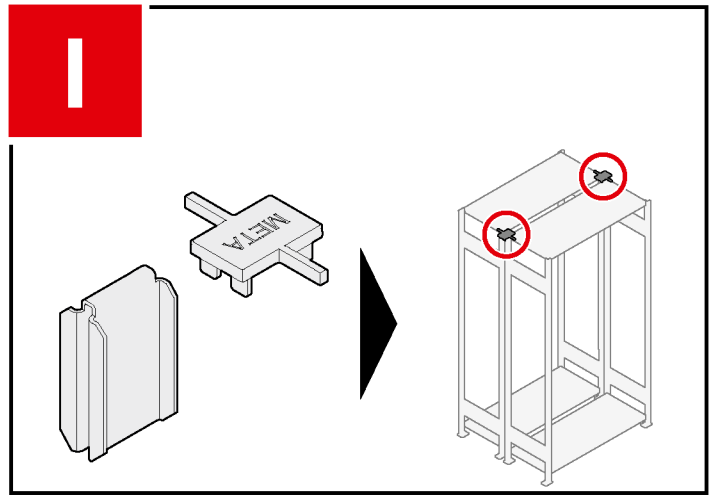
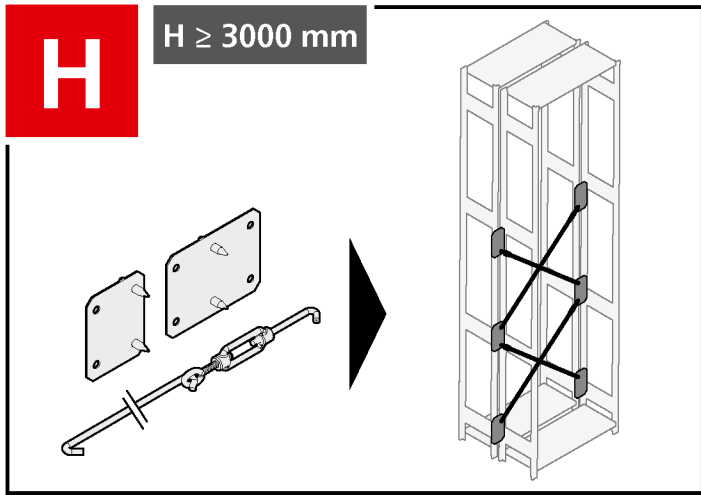
H ≥ 3500 mm

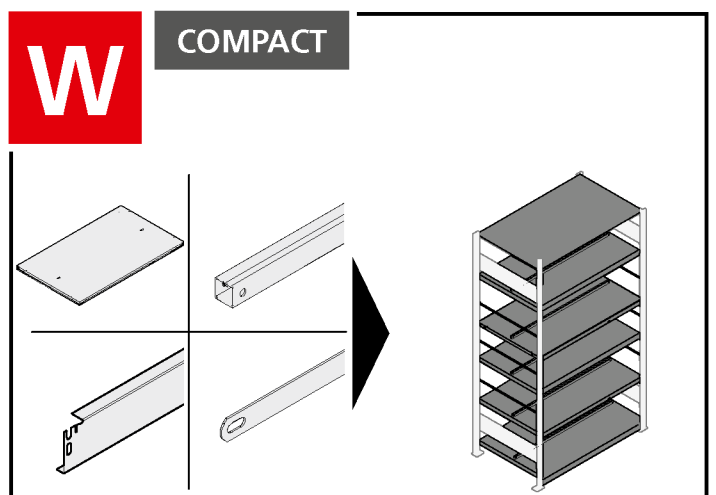
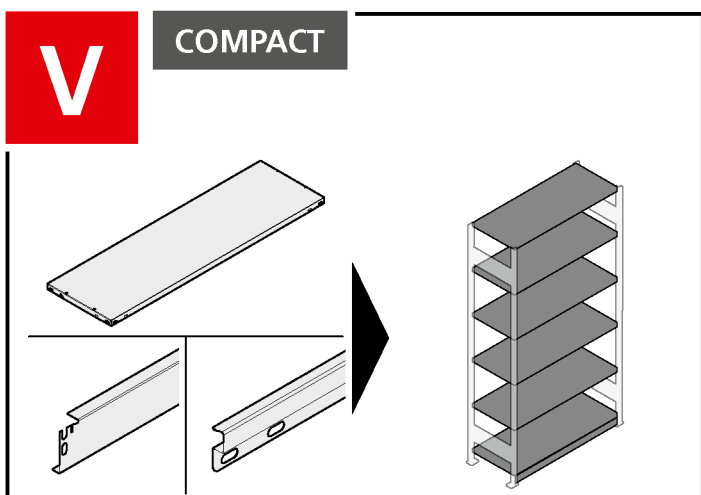
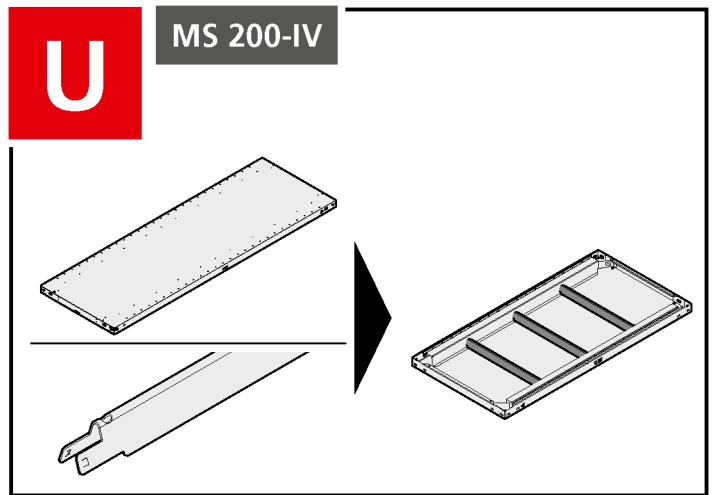
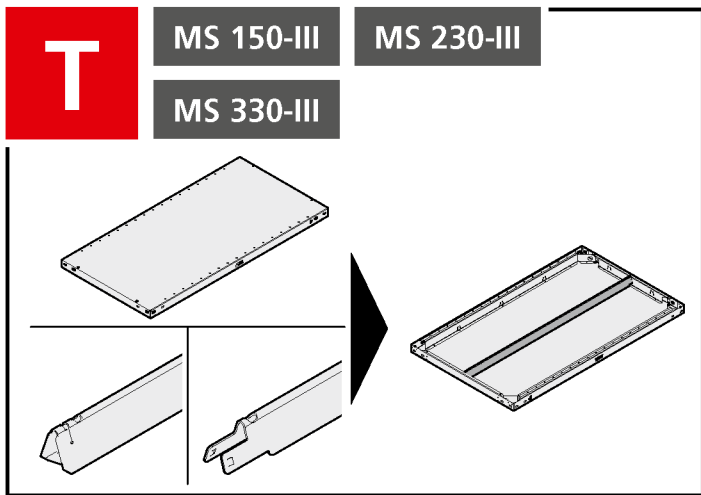
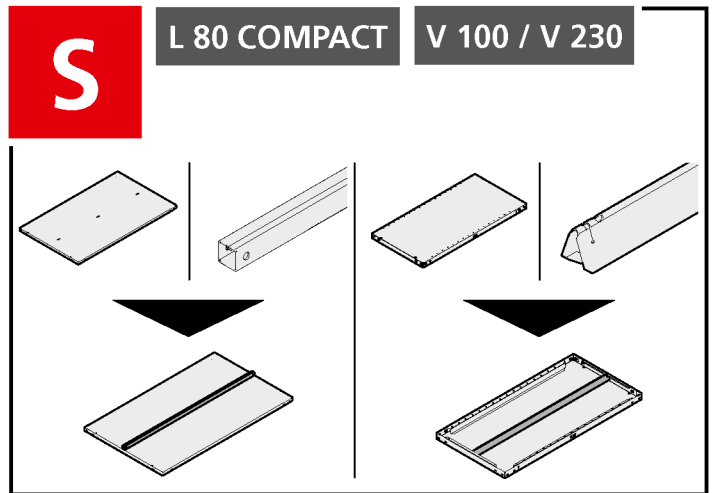
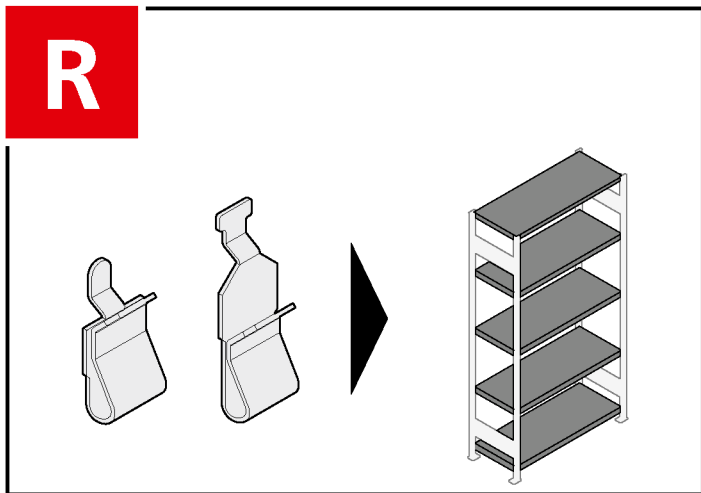
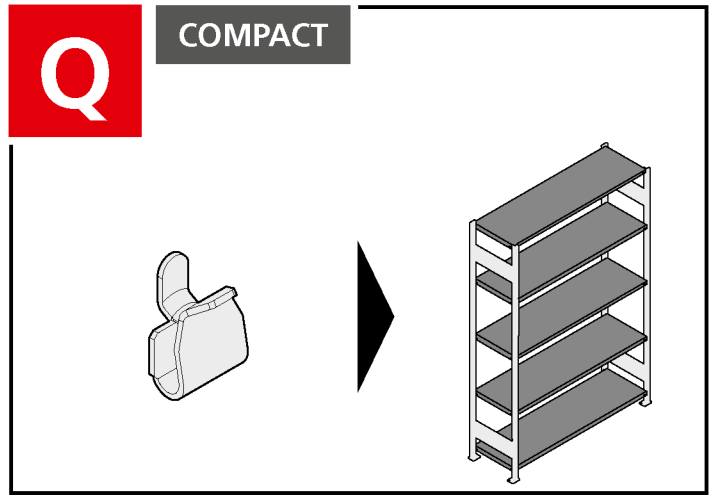
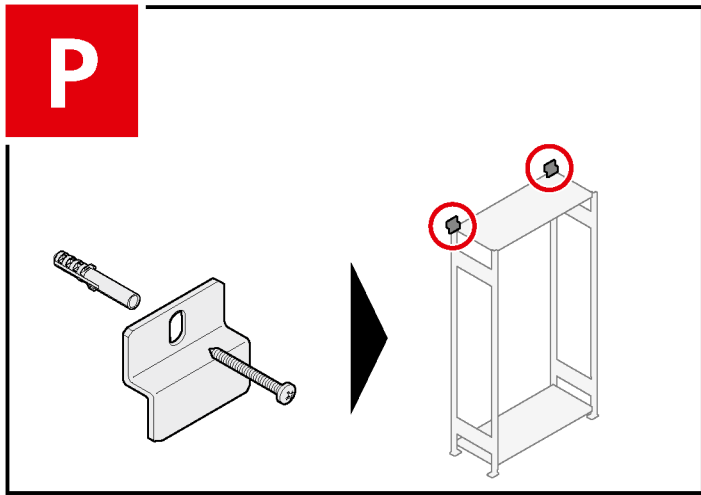


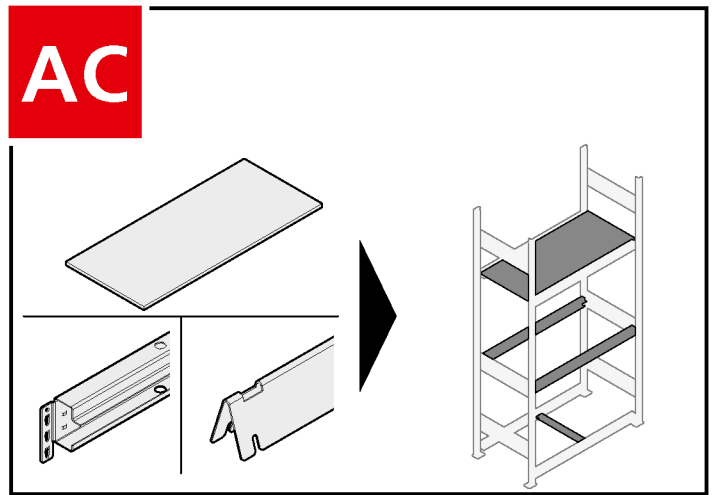
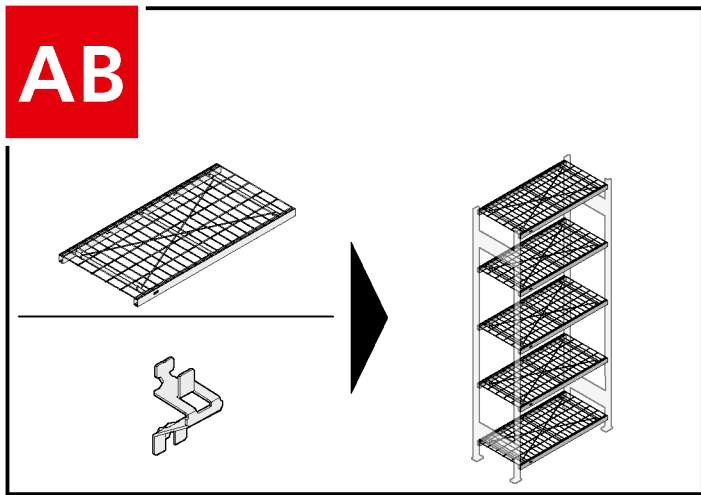
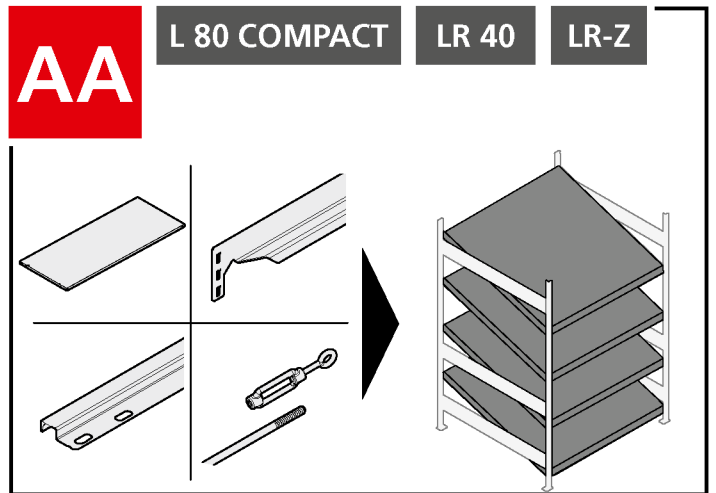
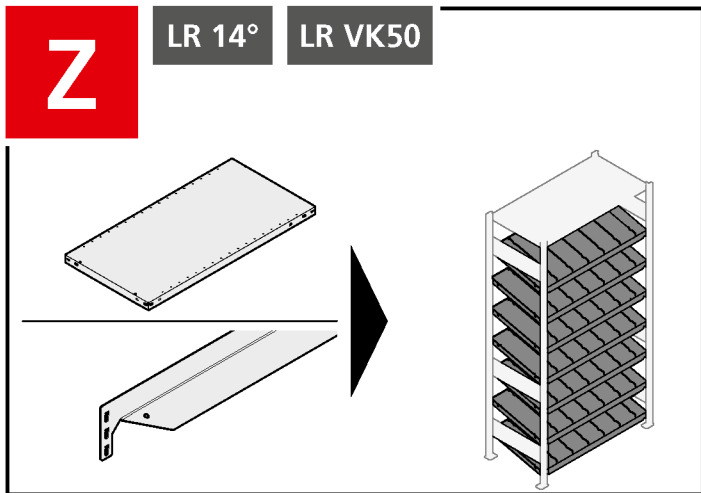
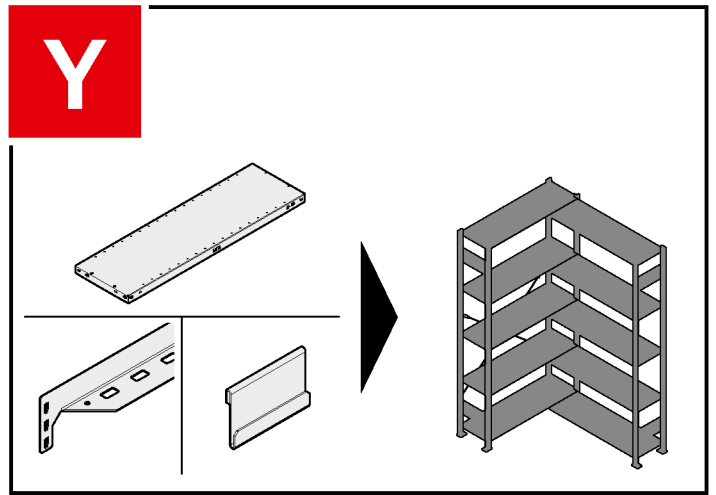
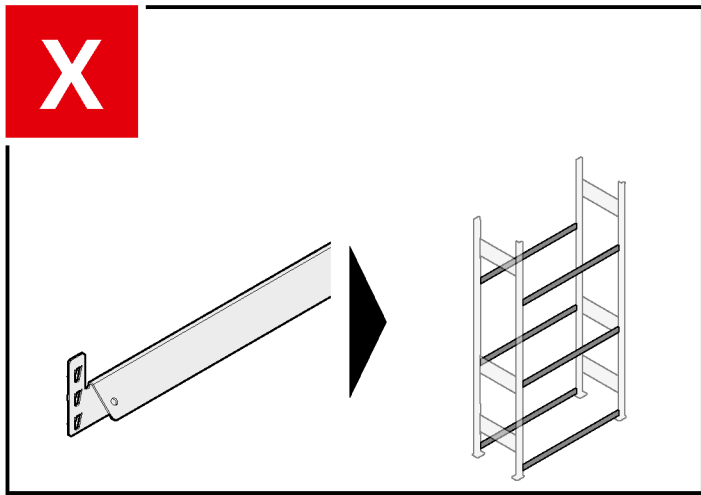
G

H < 3000 mm



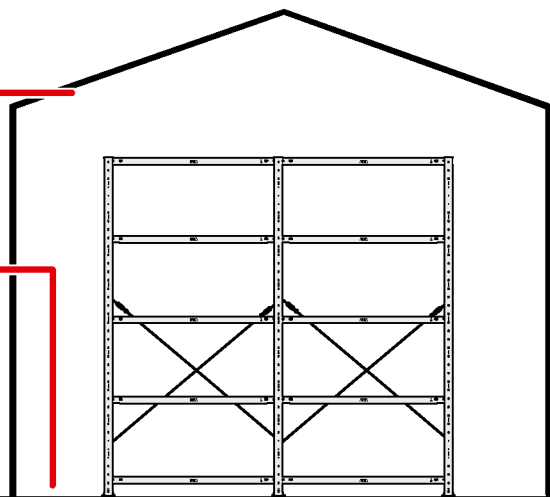
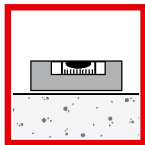








H = 2000 – 8000 mm



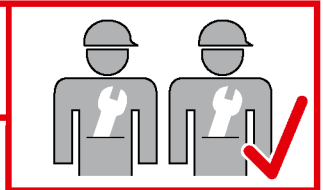
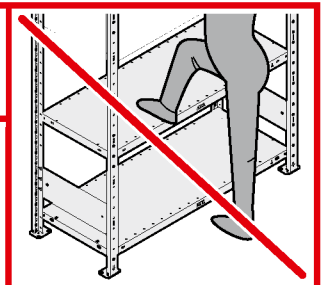
DGUV Regel108-007
(BGR 234)

DIN EN 15512

DIN EN 15620

DIN EN 15629

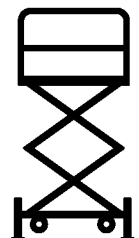
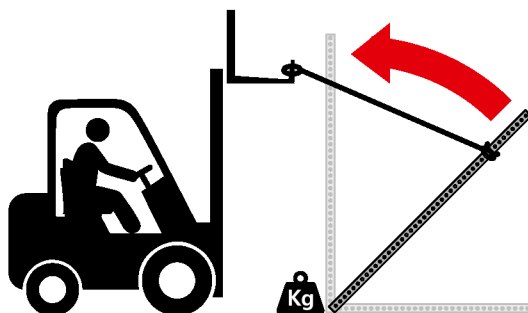
DIN EN 15635

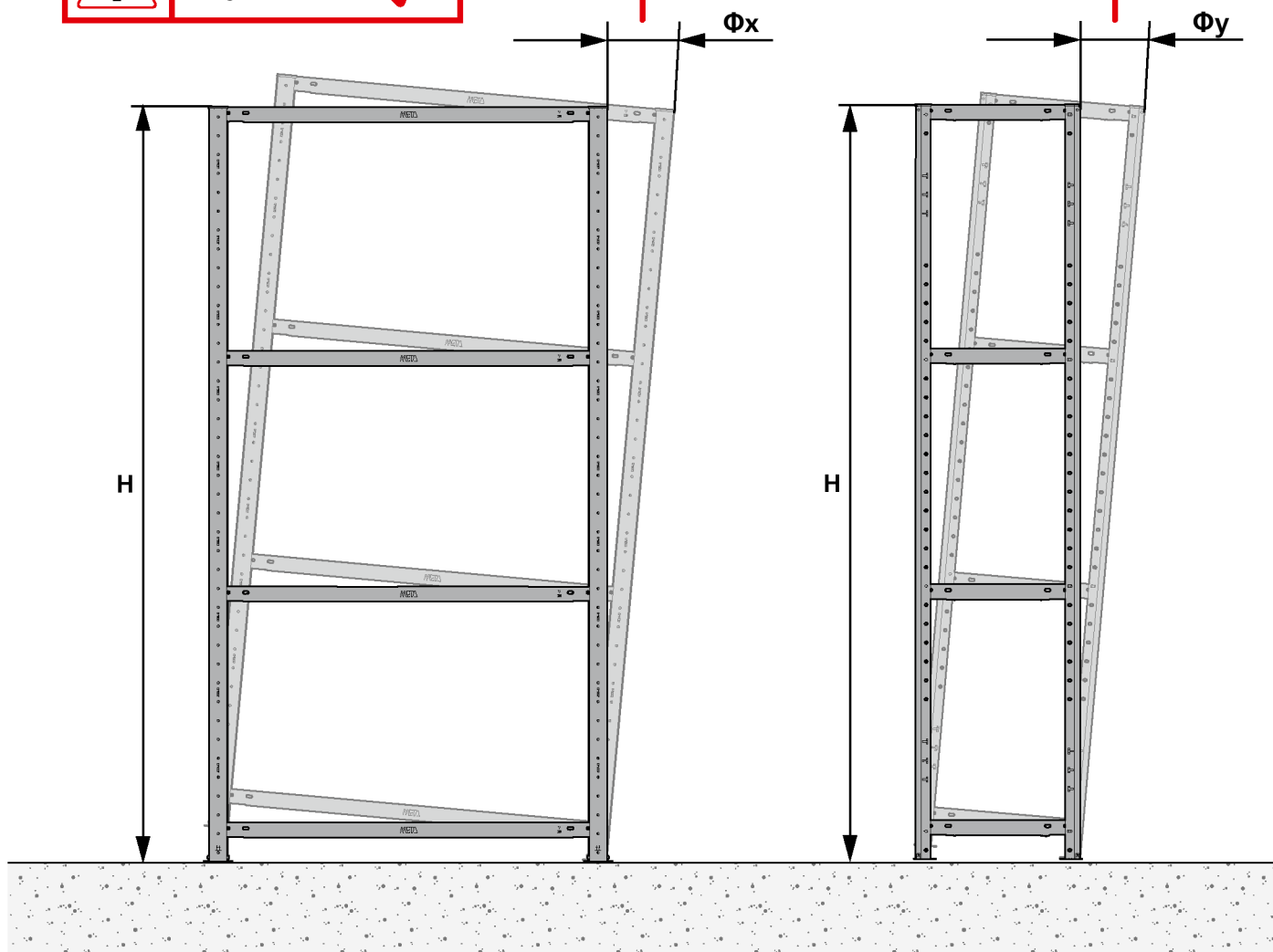
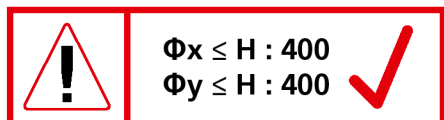
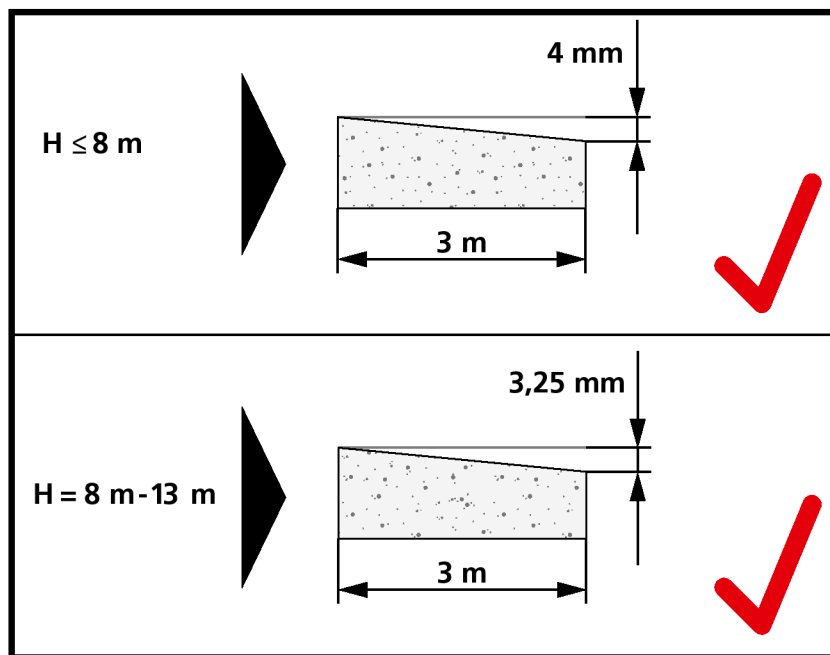
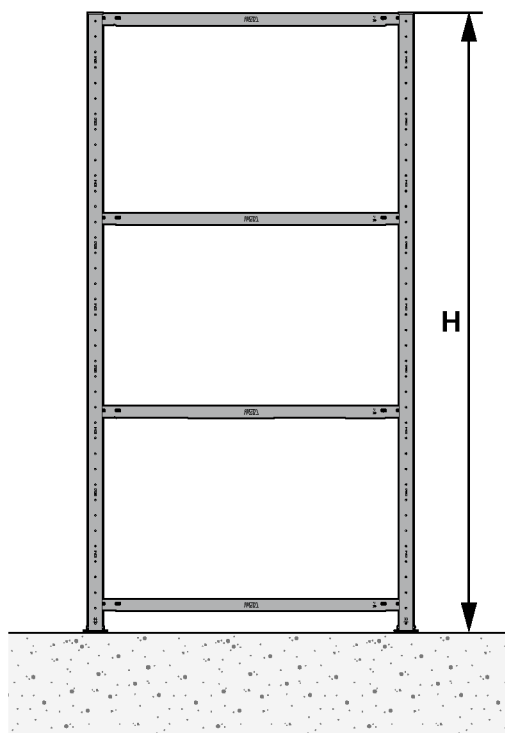


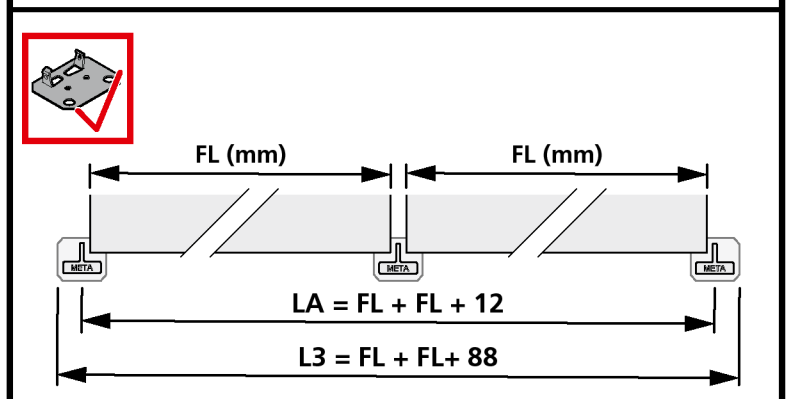
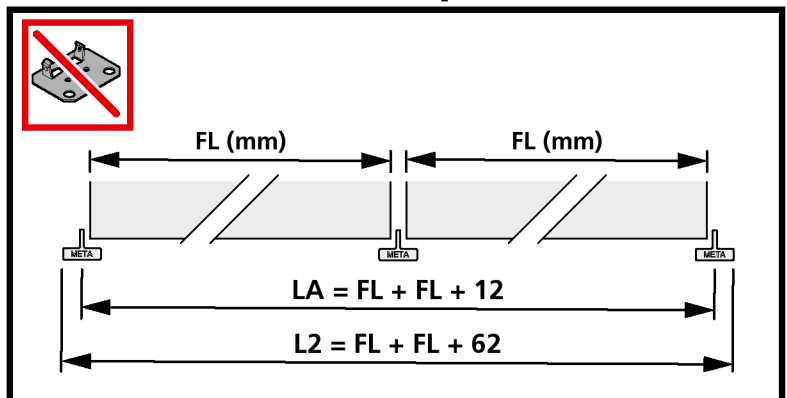
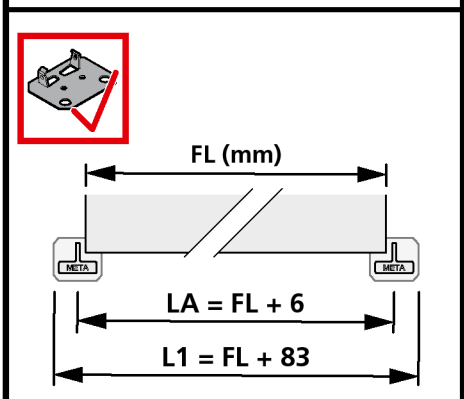
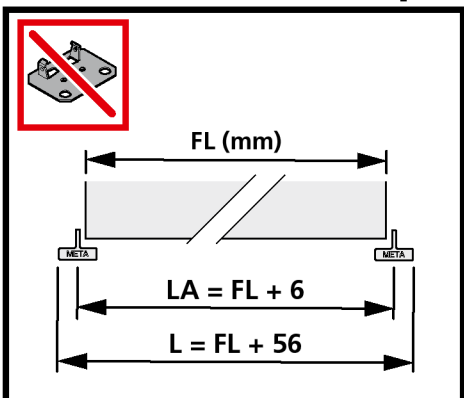
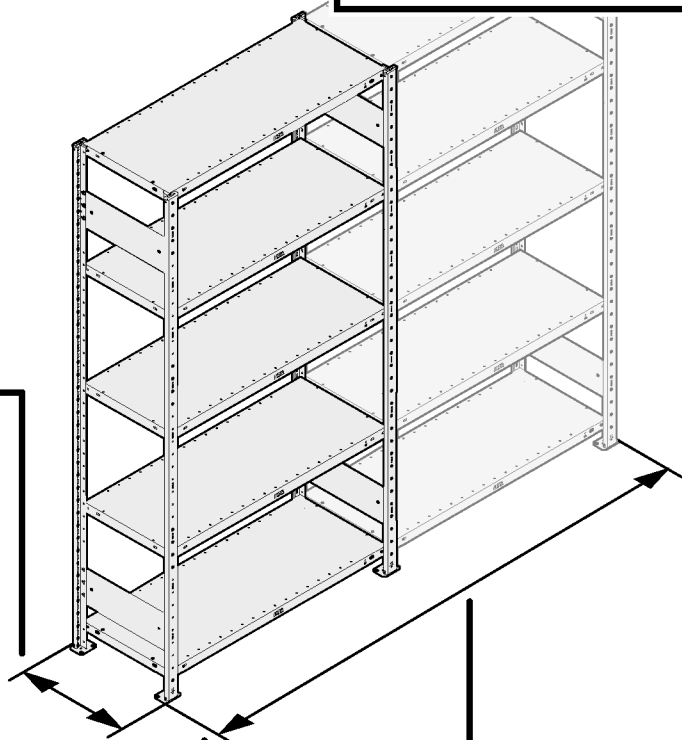
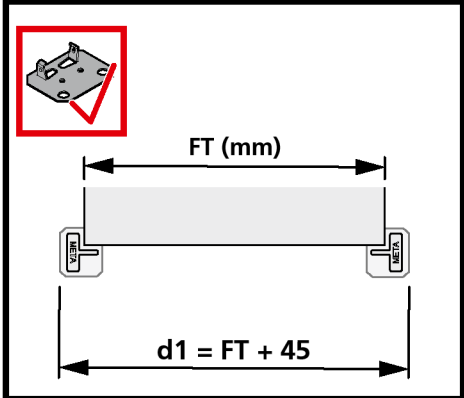
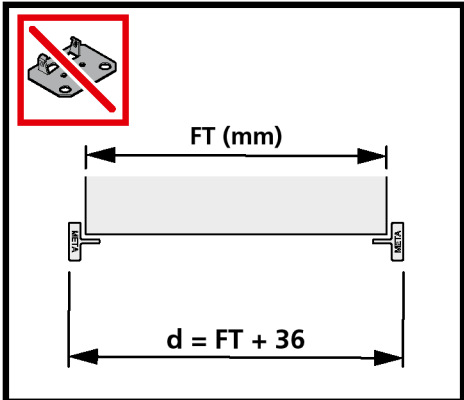
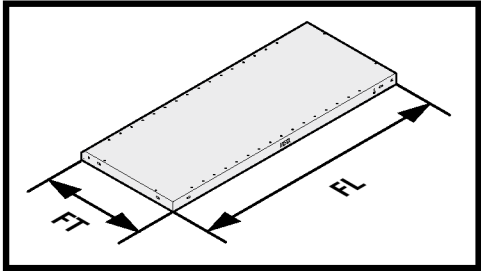
≥ C20/25

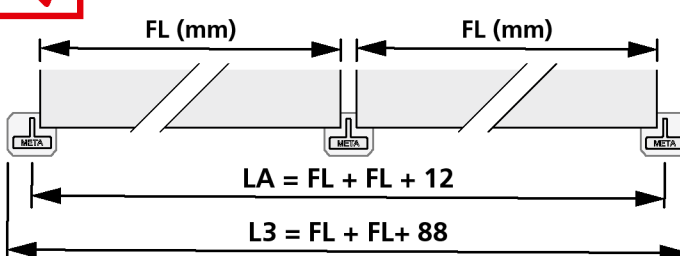
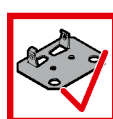
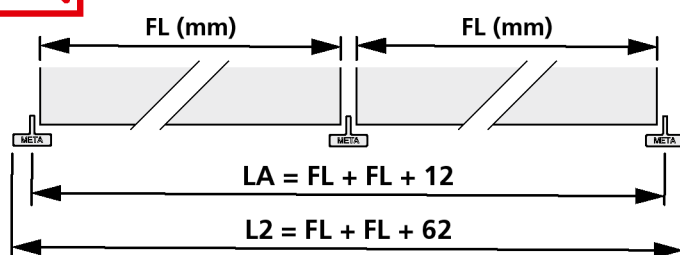
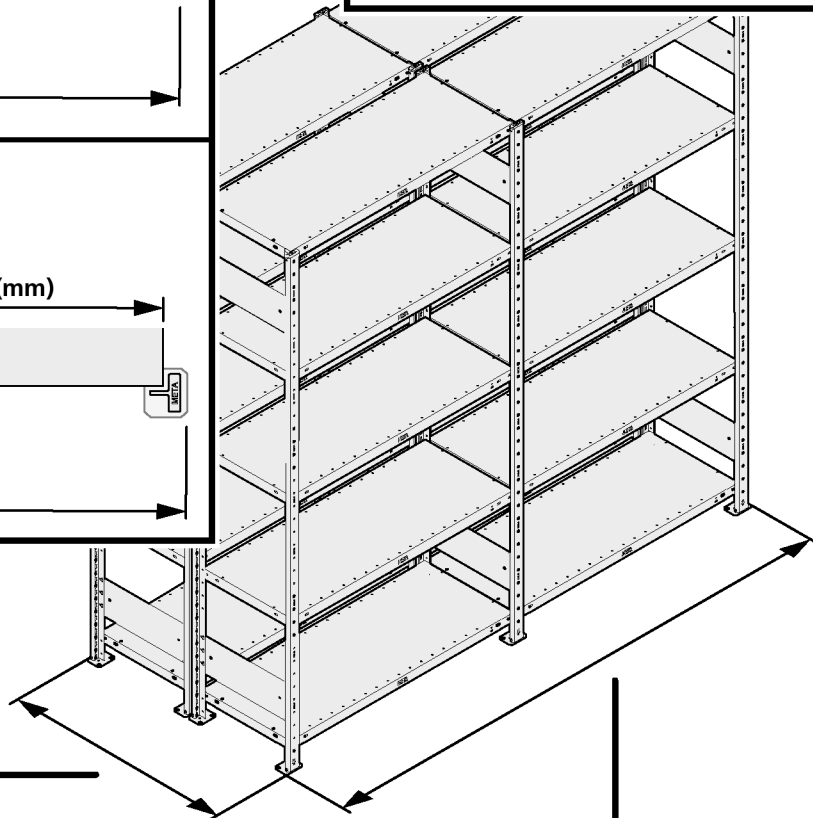
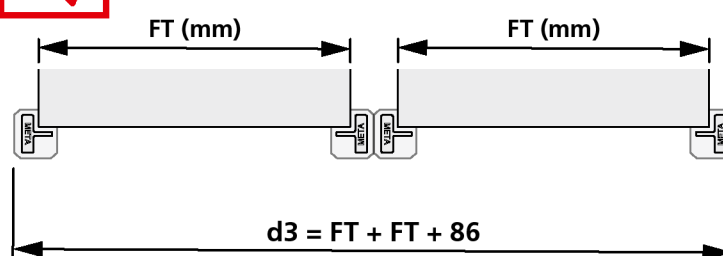
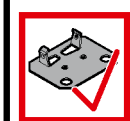
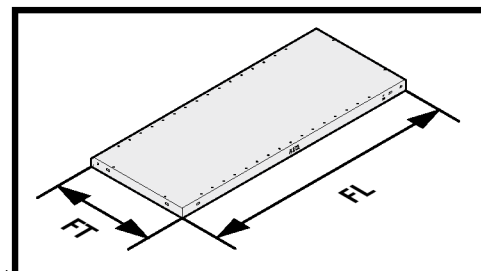
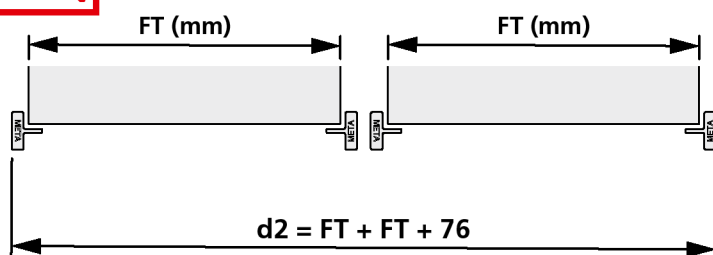


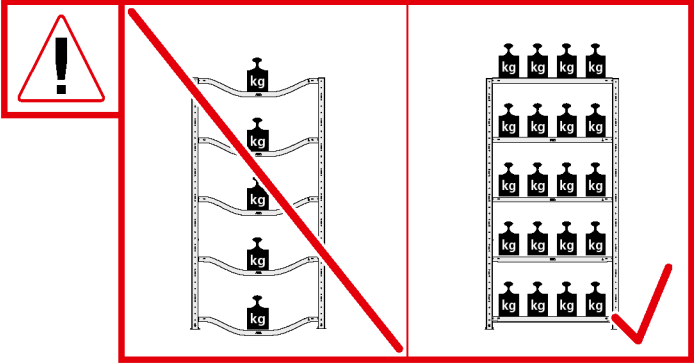
H ≥ 2500 mm



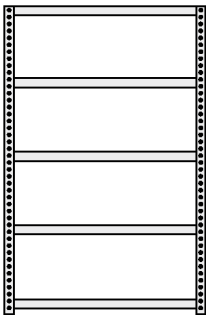
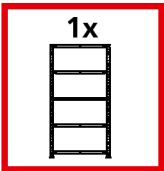
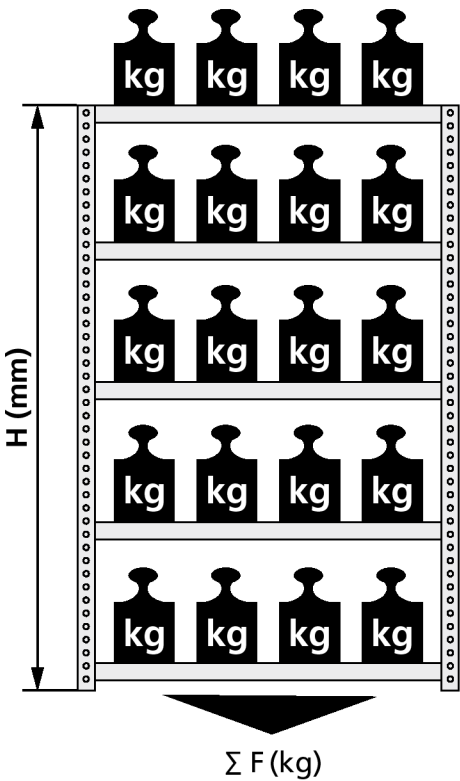




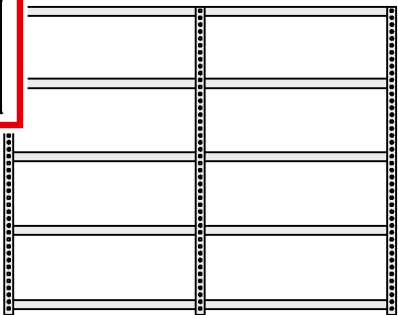
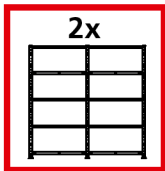




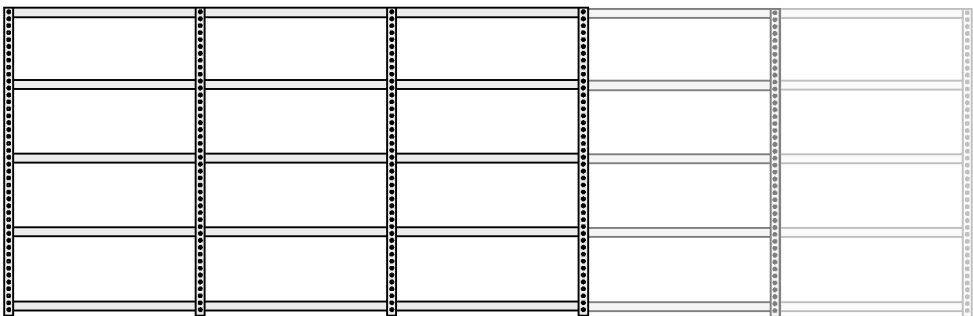
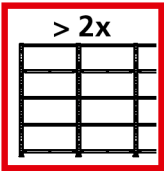
Type		H (mm)	χ x	ΣF
T1	N S3	2000	1 x	1100
T2	N S3	2500	2 x	1650



$\Sigma F \text{ (kg)} = 80\%$



$\Sigma F \text{ (kg)} = 90\%$



$\Sigma F \text{ (kg)} = 100\%$



L 80

COMPACT

V 100

V 150

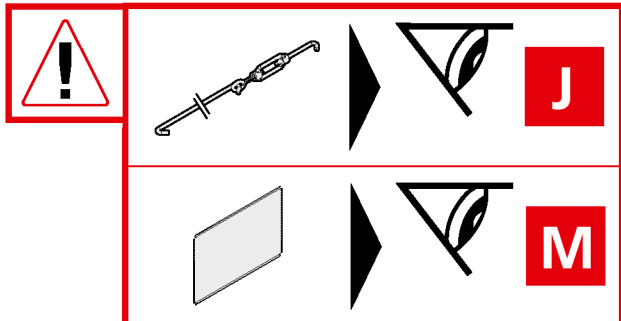
V 230

MS 150-III

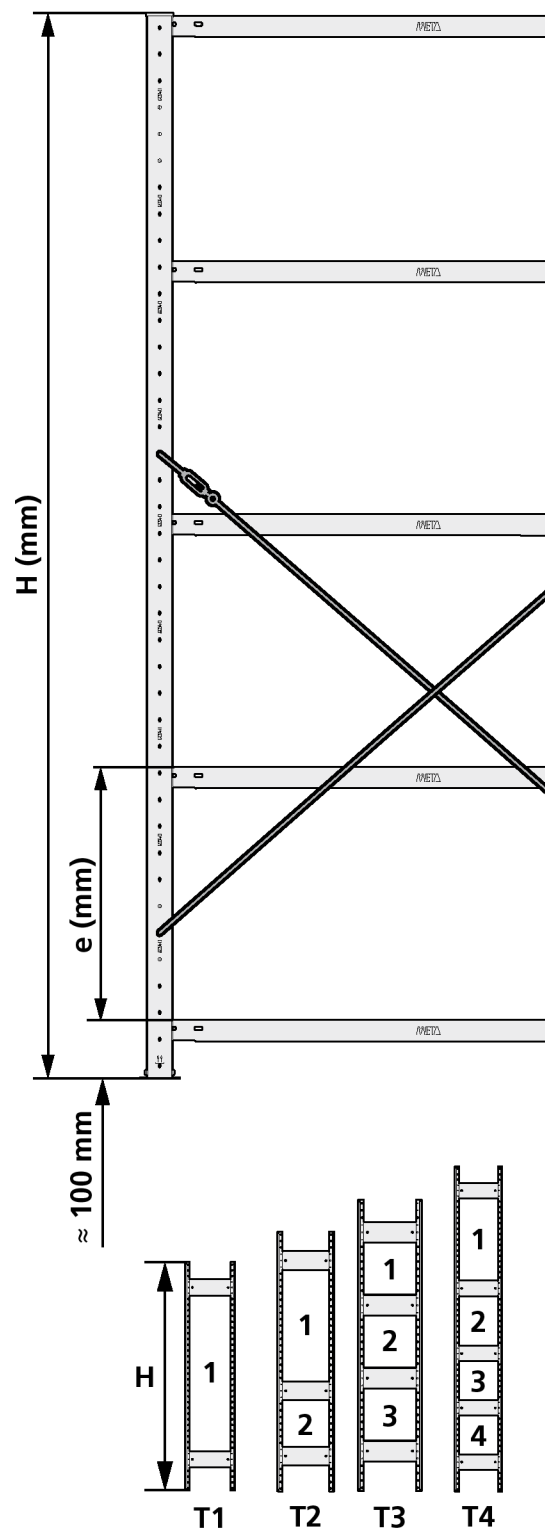
MS 230-III

MS 330-III

MS 200-IV



Type		H (mm)	X x 	e (mm)		
				500	650	800
T1 VW1	N	2000	1 x	1645	1645	1645
	N	2200	1 x	1351	1351	1351
T2 VW2	N	2000	1 x	2341	2207	2072
	N	2200	1 x	2115	1990	1864
	N	2500	2 x	2386	2325	2264
	N	3000	2 x	1899	1861	1822
T3 VW3	N	2500	2 x	2556	2467	2378
	N	3000	2 x	2207	2152	2097
T4 VW4	N	3000	2 x	2510	2425	2340

 ΣF 



V 150

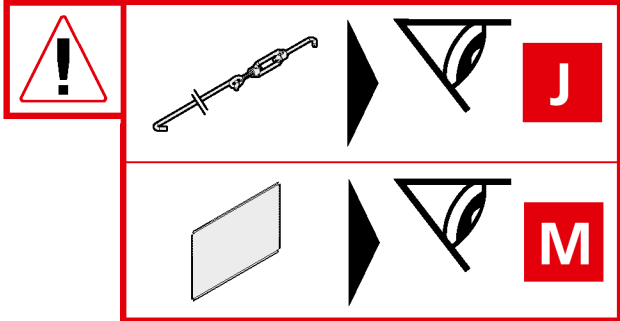
V 230

MS 150-III

MS 230-III

MS 330-III

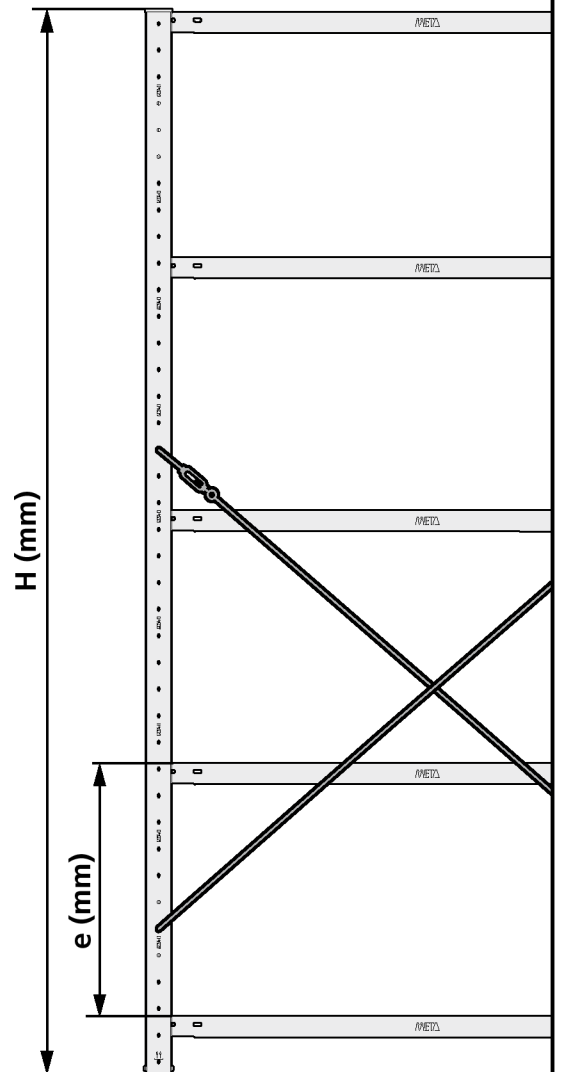
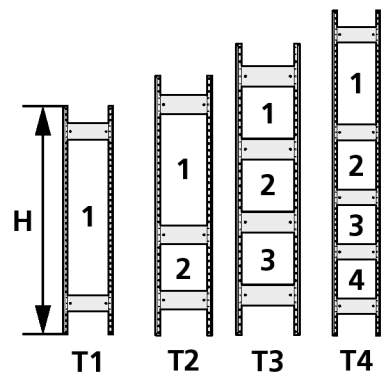
MS 200-IV

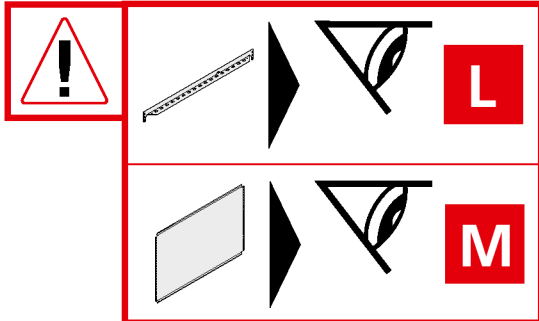


Type		H (mm)	X x 	e (mm)		
				500	650	800
T1 VW1	S	2000	1 x	2552	2552	2552
	S	2200	1 x	2119	2119	2119
T2 VW2	S	2000	1 x	3365	3017	2668
	S	2200	1 x	3054	2852	2650
	S	2500	2 x	3699	3606	3512
	S	3000	2 x	2990	2936	2882
T3 VW3	S	2500	2 x	3982	3770	3558
	S	3000	2 x	3067	3045	3022
T4 VW4	S	3000	2 x	3066	3044	3021



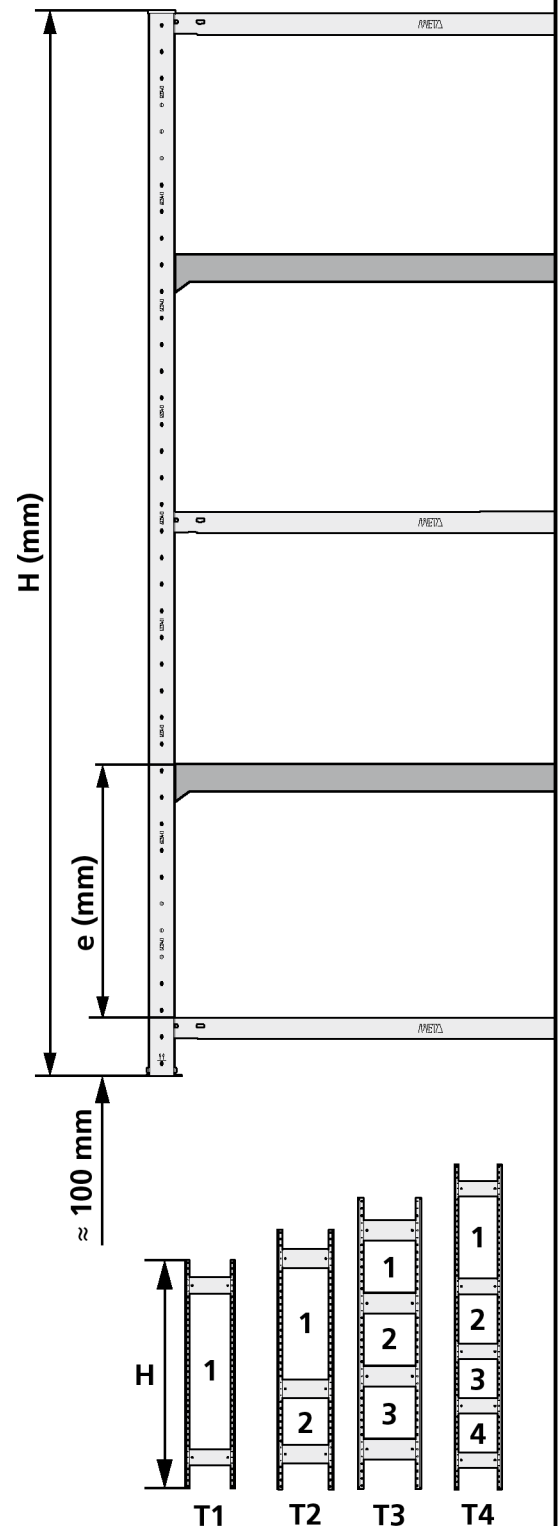
F

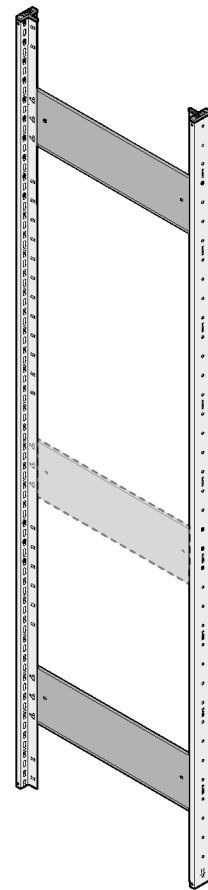
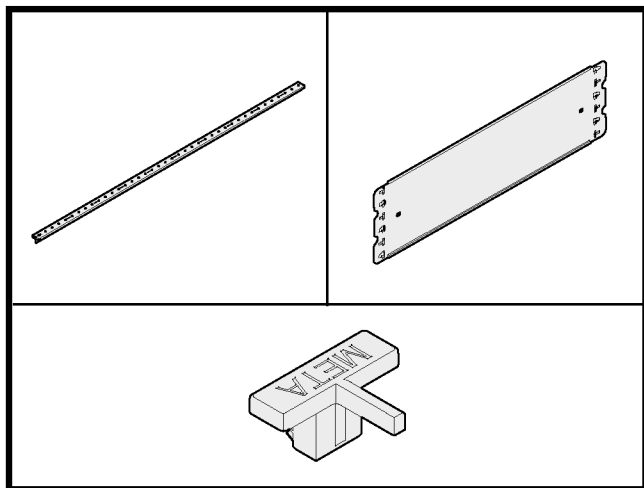
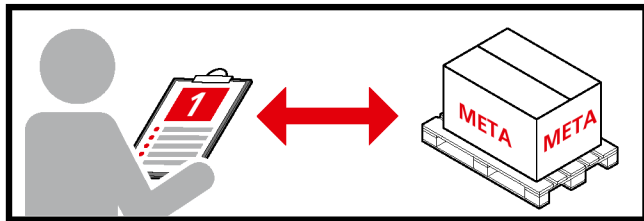
 $\approx 100 \text{ mm}$ 



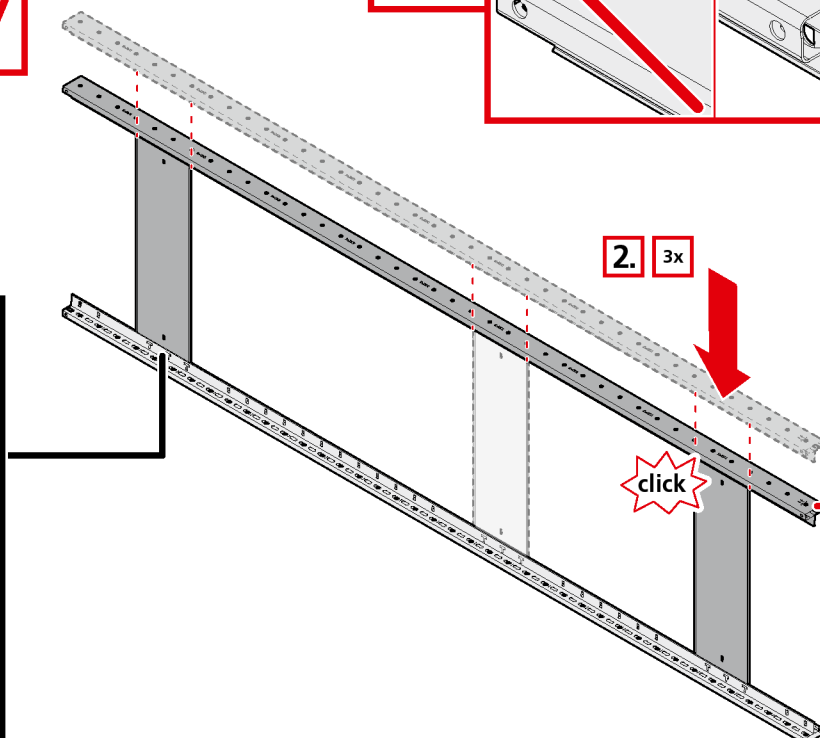
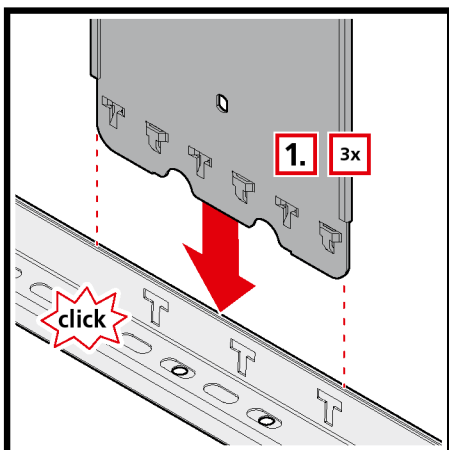
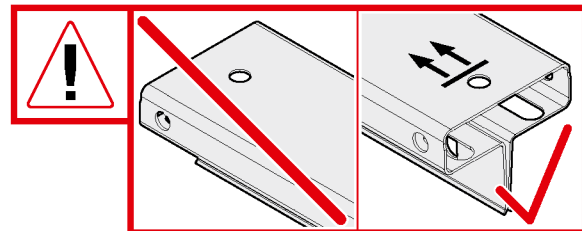
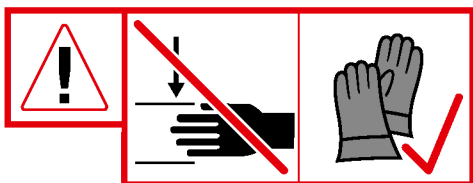
Type		H (mm)	X x 	e (mm)		
				500	650	800
T1 VW1	N	2000	2 x 2	1645	1645	1645
			3 x 2	1645	1645	1645
	N	2200	2 x 2	1351	1351	1351
			3 x 2	1351	1351	1351
T2 VW2	N	2000	2 x 2	1944	1886	1756
			3 x 2	2606	2514	2421
	N	2200	2 x 2	1547	1508	1470
			3 x 2	2124	2060	2018
	N	2500	3 x 2	2124	1934	1804
			4 x 2	2386	2325	2264
T3 VW3	N	2500	3 x 2	2163	1932	1803
			4 x 2	2556	2467	2378
	N	3000	4 x 2	1927	1869	1830
T4 VW4	N	3000	4 x 2	1937	1878	1840

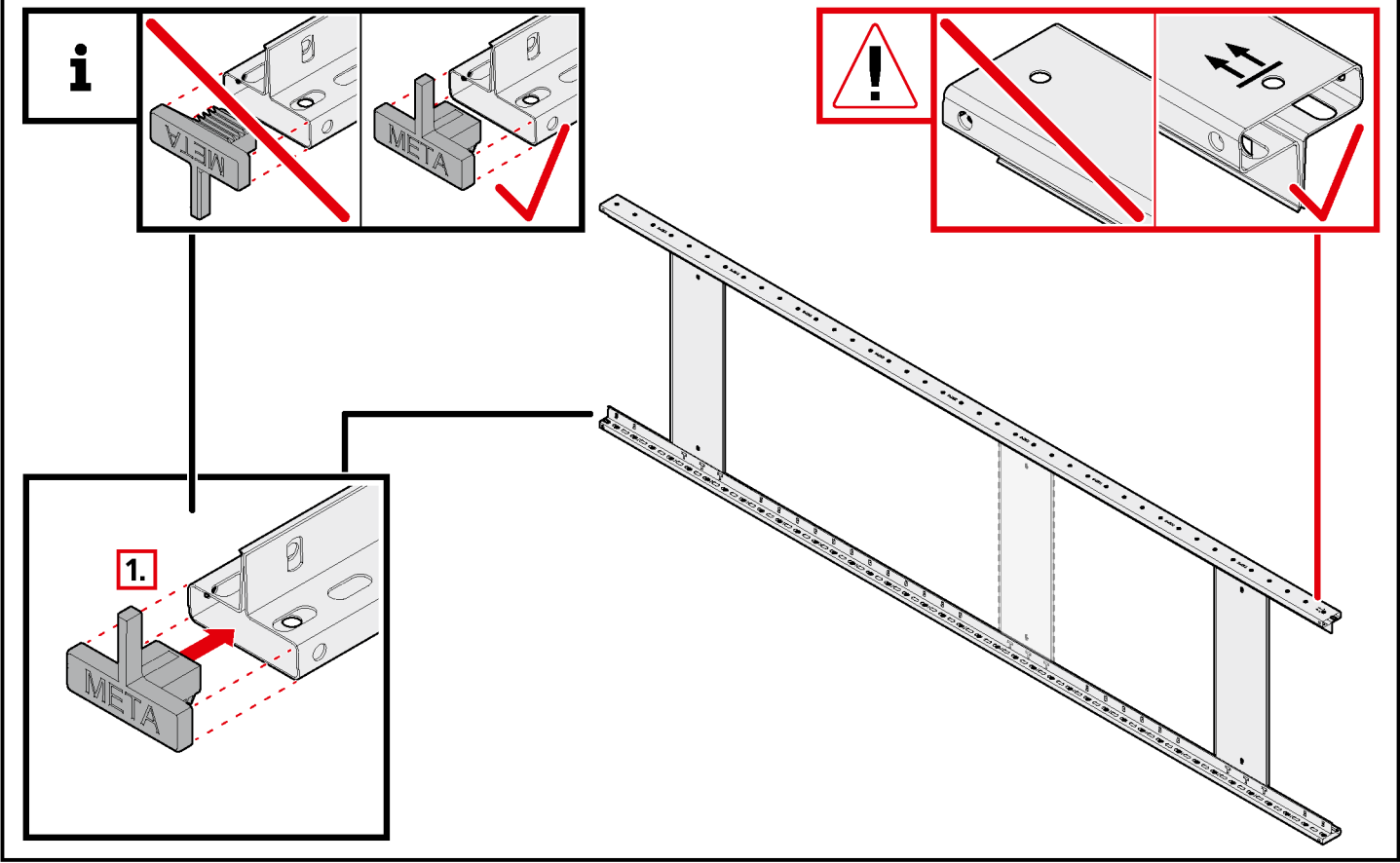
F

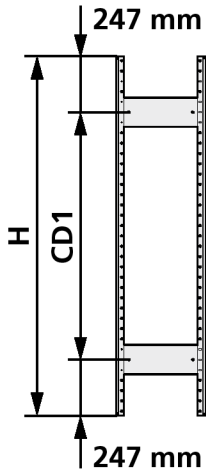
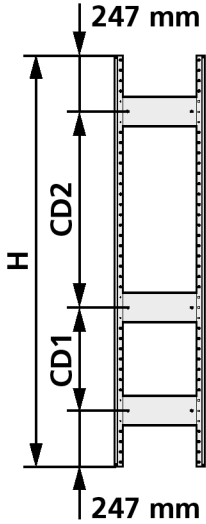
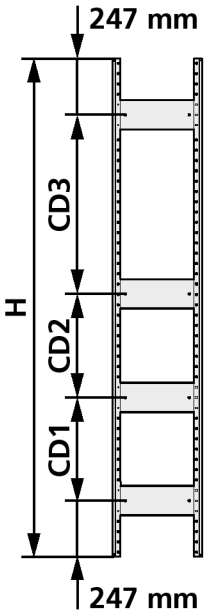


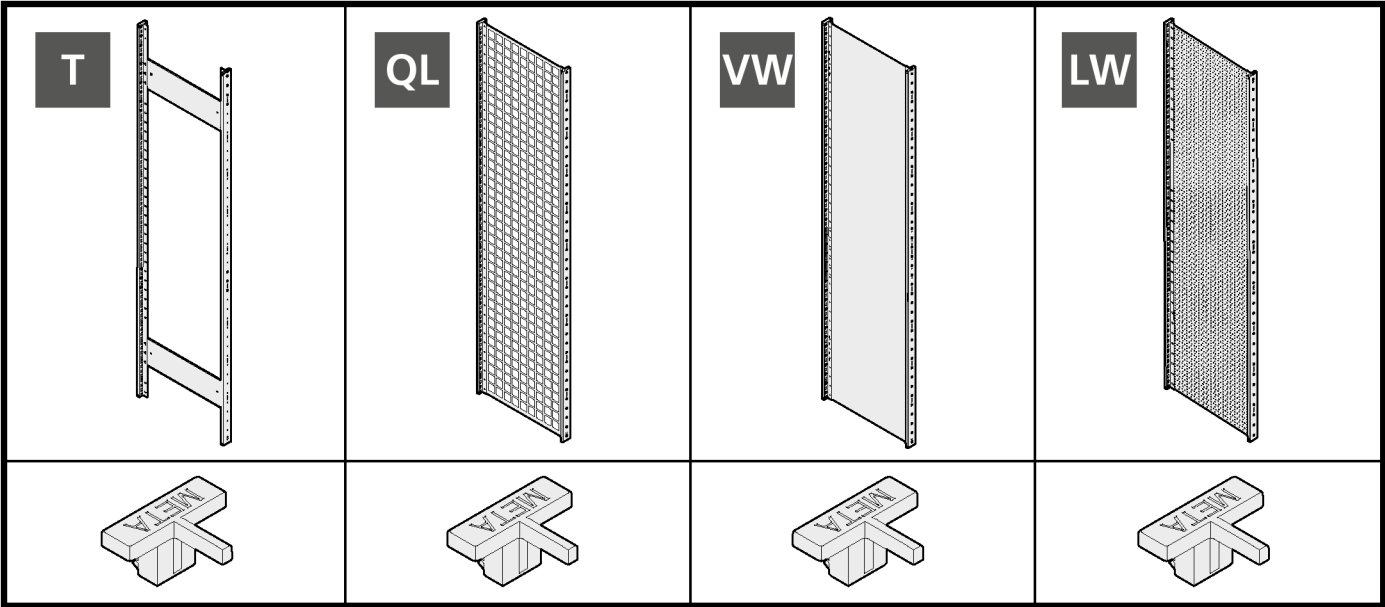
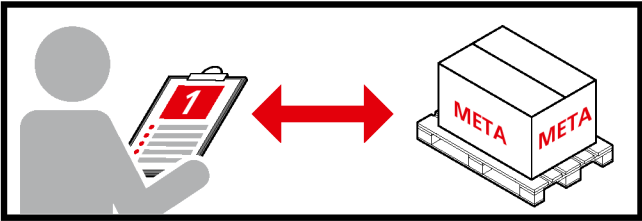


01





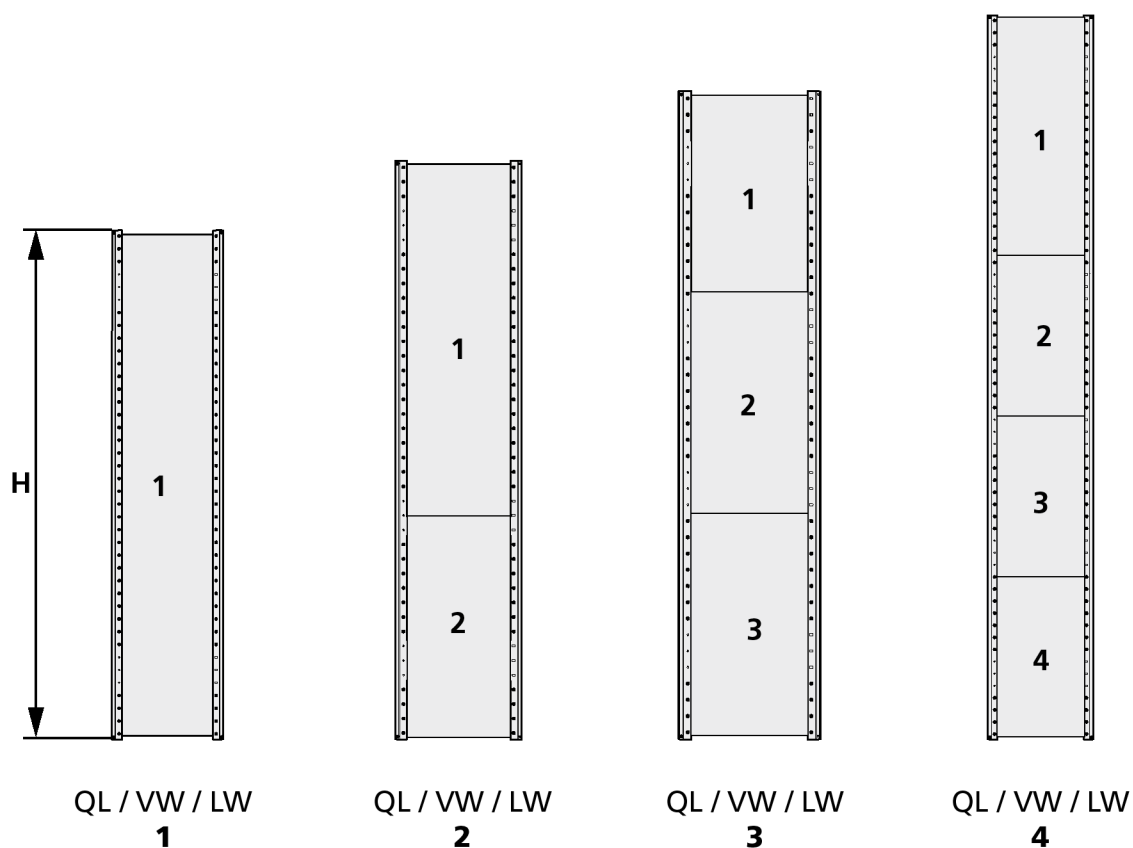
							
	T1		T2			T3	
H (mm)	1850	2000	2000	2200	2500	2500	3000
CD1 (mm)	1350	1500	500	600	750	500	600
CD2 (mm)			1000	1100	1250	500	800
CD3 (mm)						1000	1100



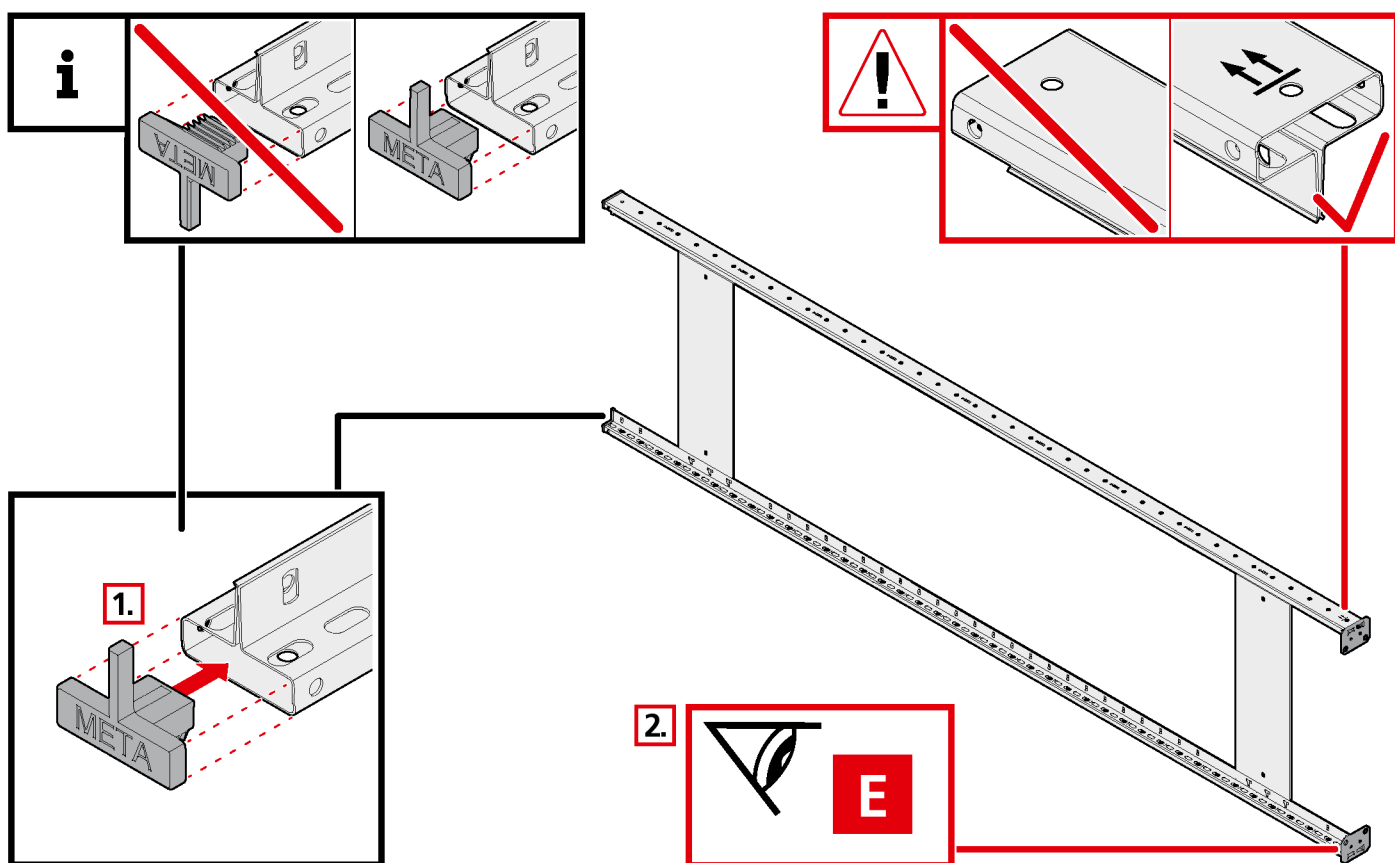
1

T

	T1		T2				T3		T4	
H (mm)	1850	2000	2000	2200	2500	3000	2500	3000	2500	3000
CD1 (mm)	1350	1500	500	600	750	1000	500	600	500	500
CD2 (mm)			1000	1100	1250	1500	500	800	500	500
CD3 (mm)							1000	1100	500	600
CD4 (mm)									500	900



01



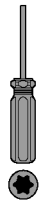
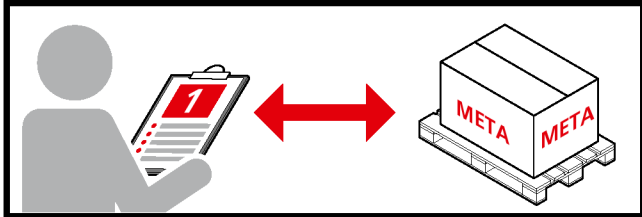


T

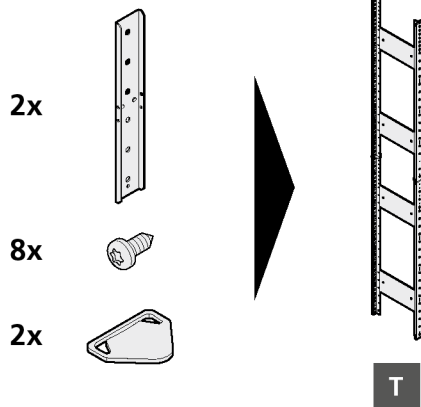
VW

QL

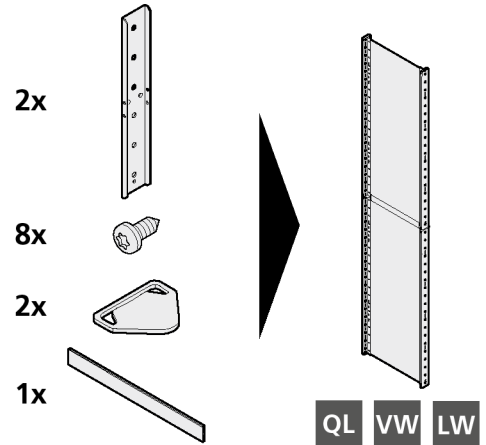
LW



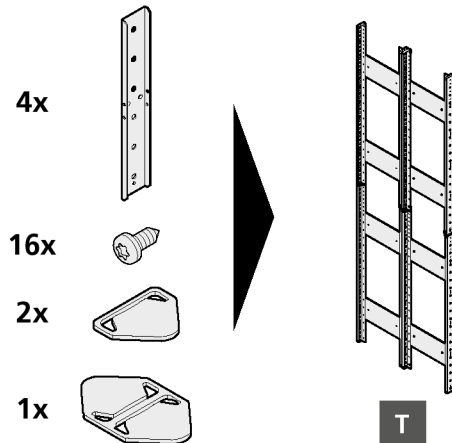
I



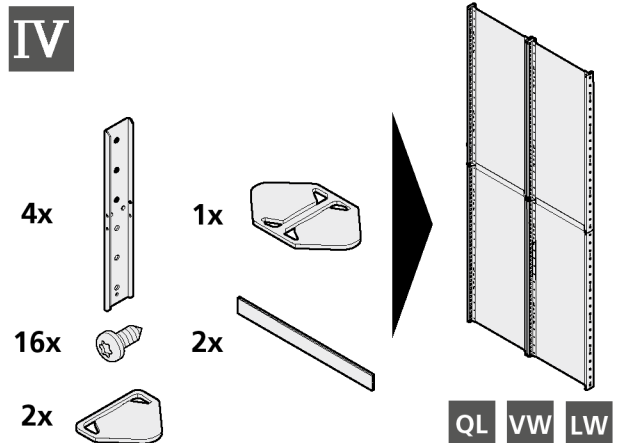
II



III



IV



I

II

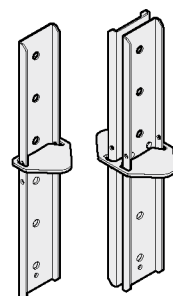
III

IV

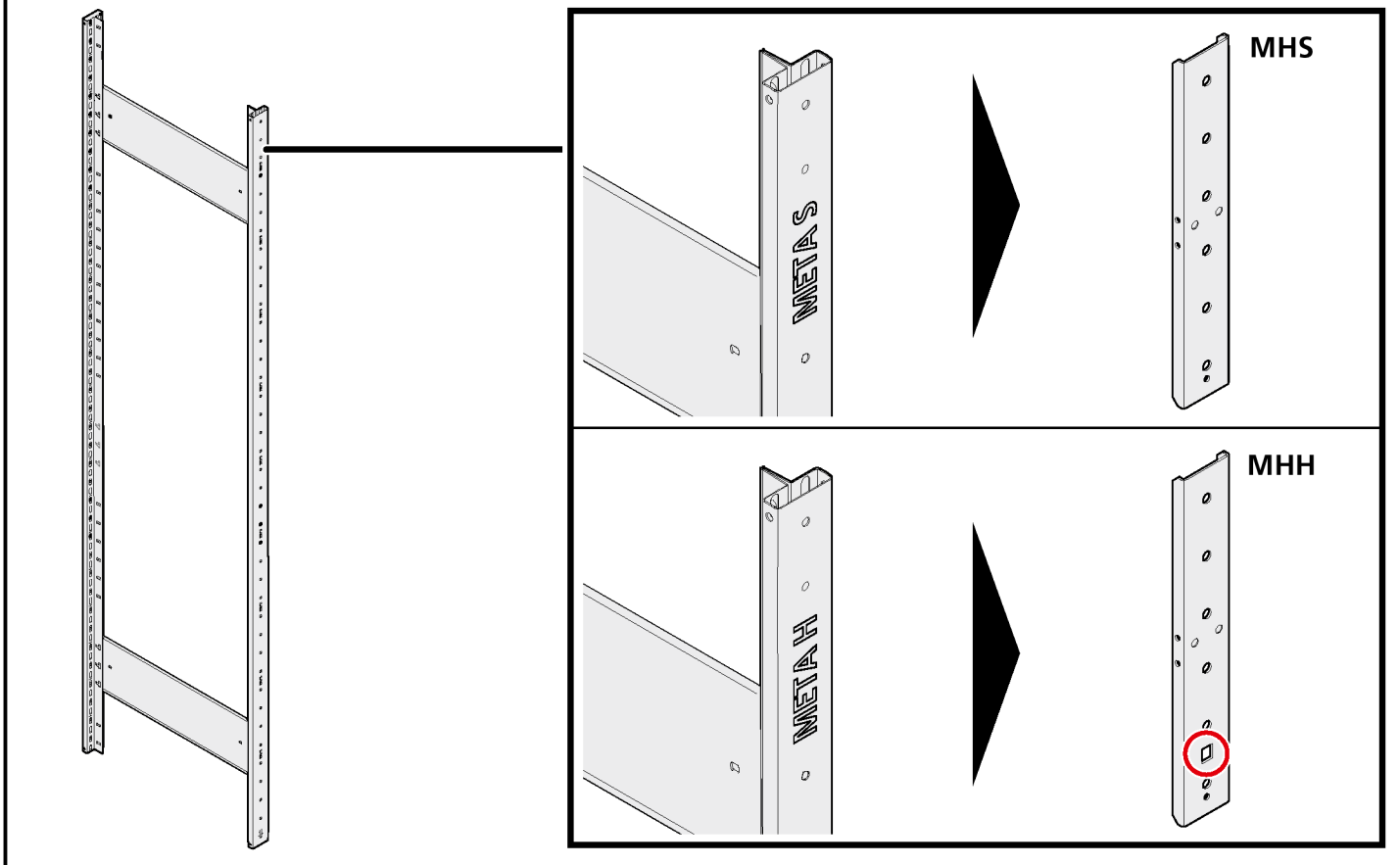
1.



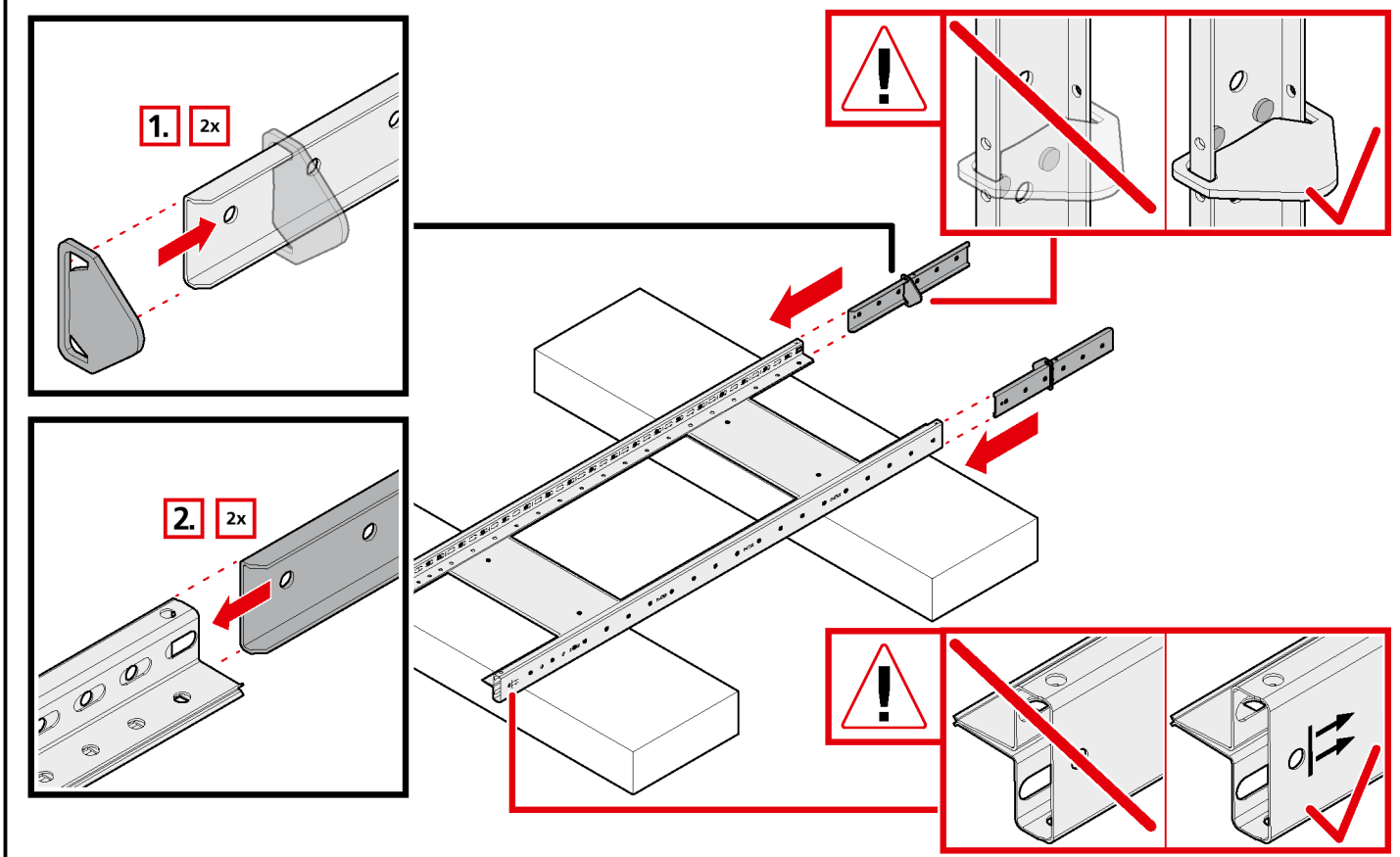
2.

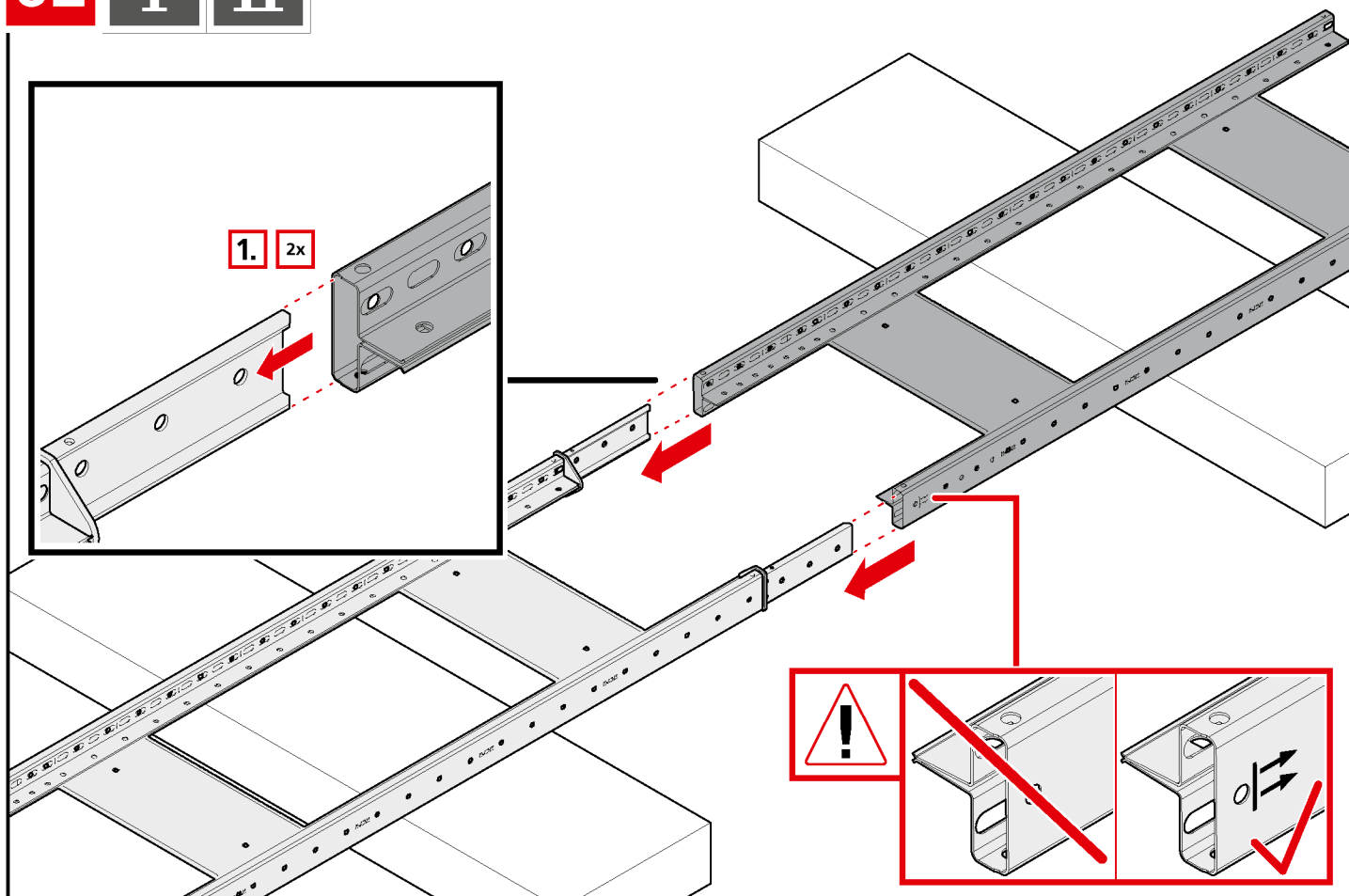
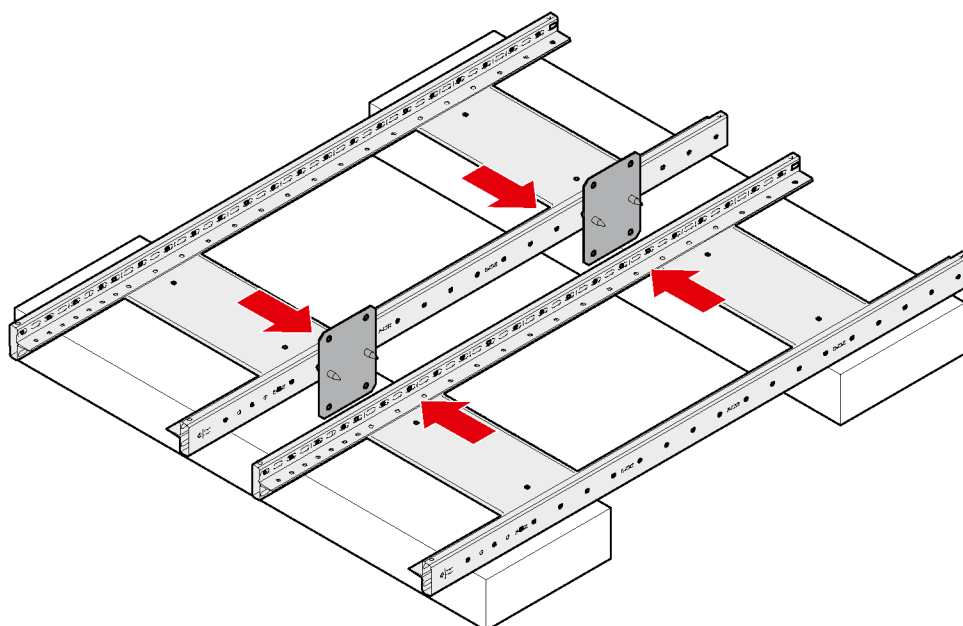
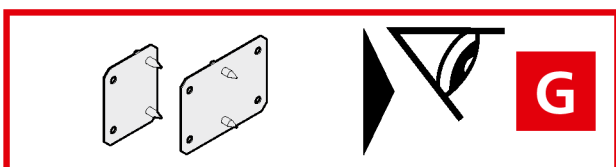


i I II III IV



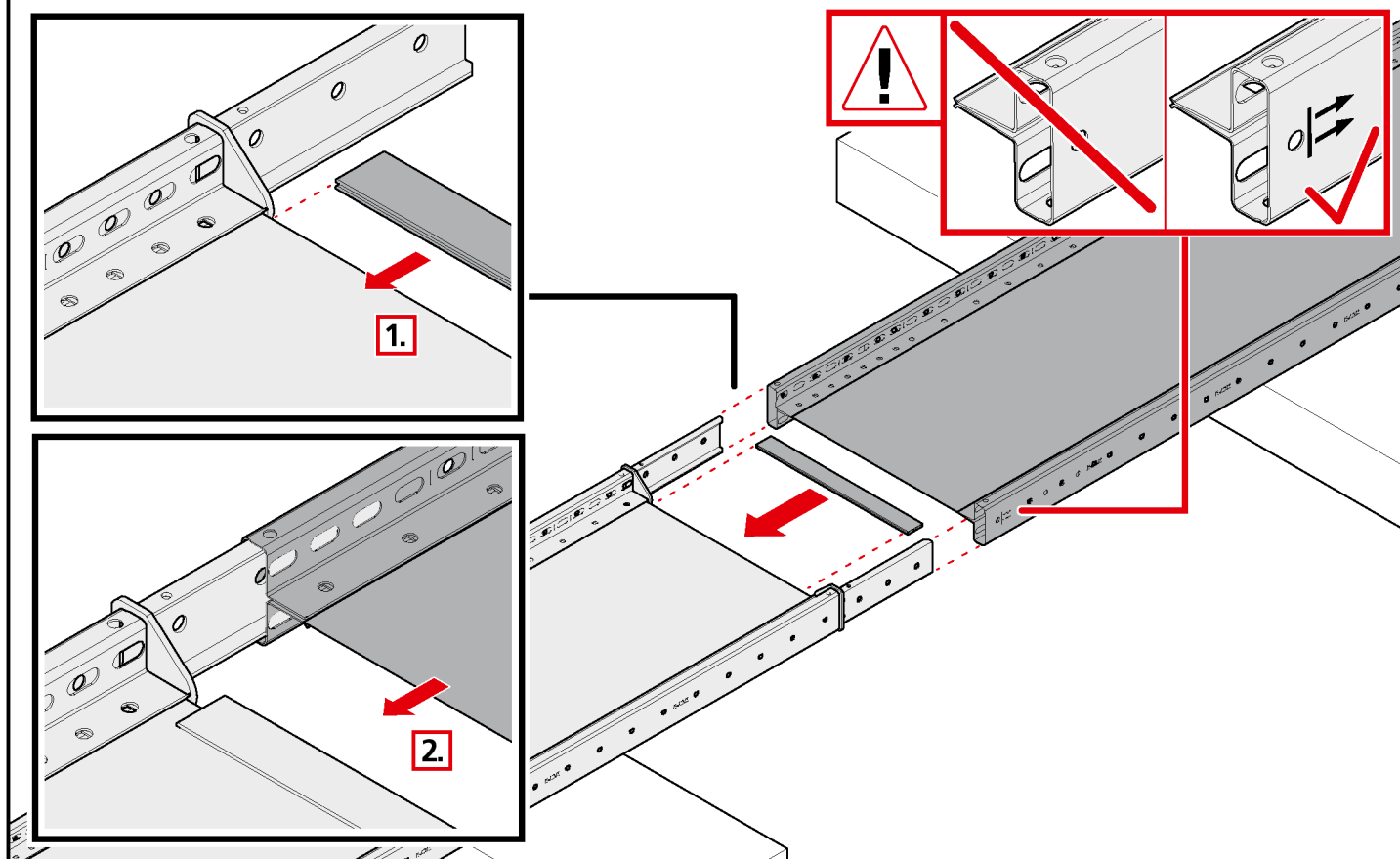
01 I II



02**I****II****i****III****IV****1.**

03

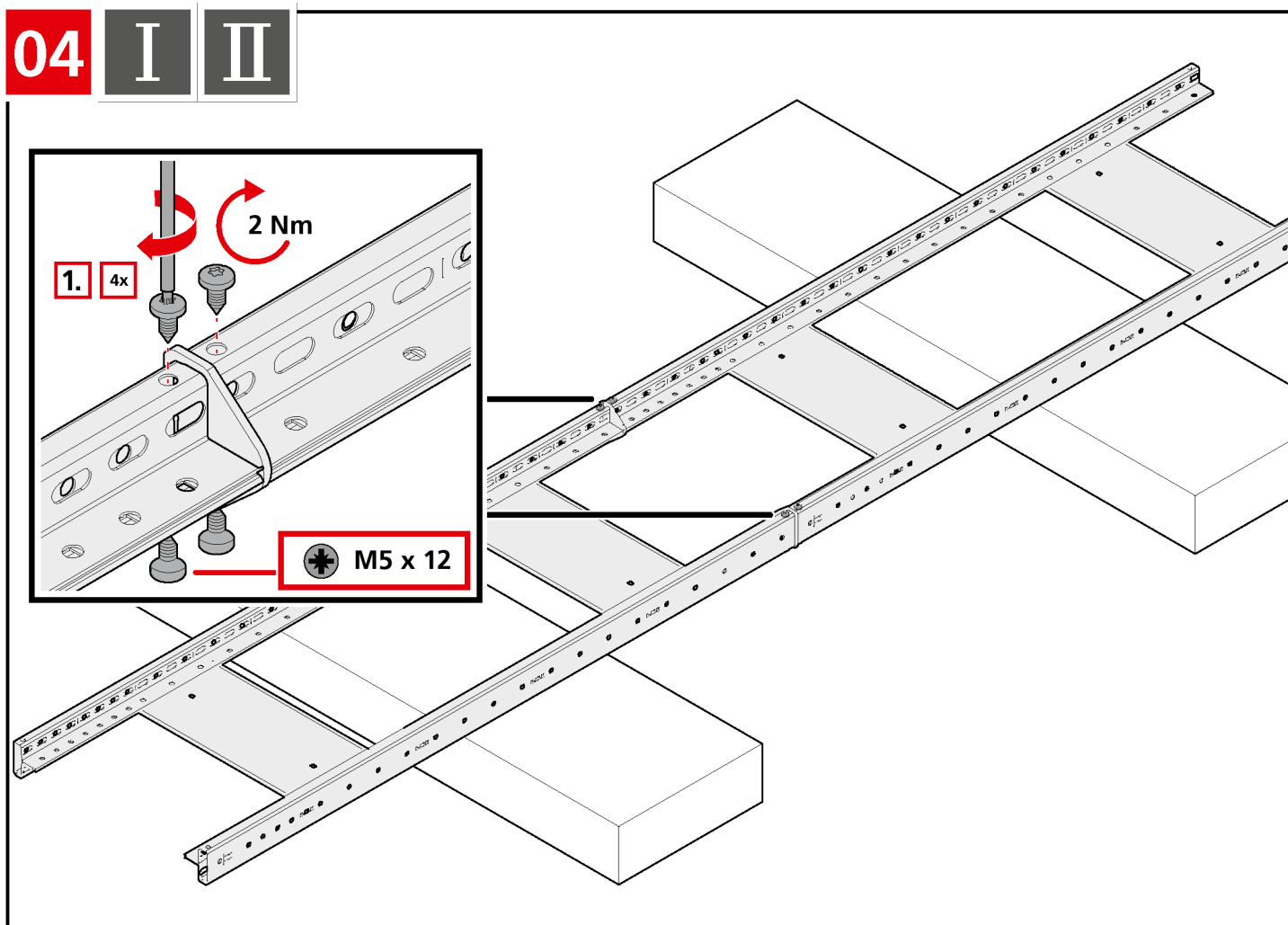
II



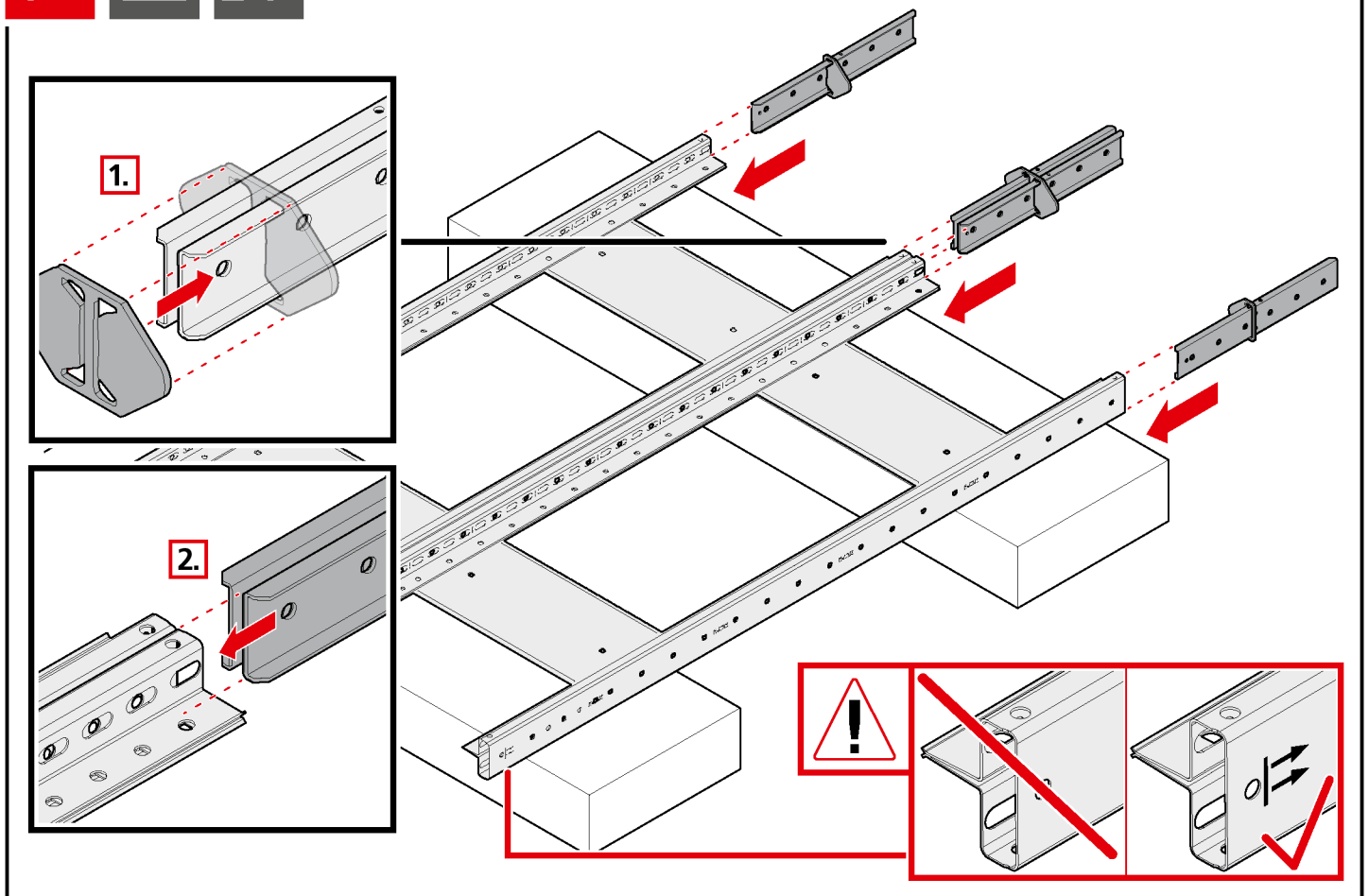
04

I

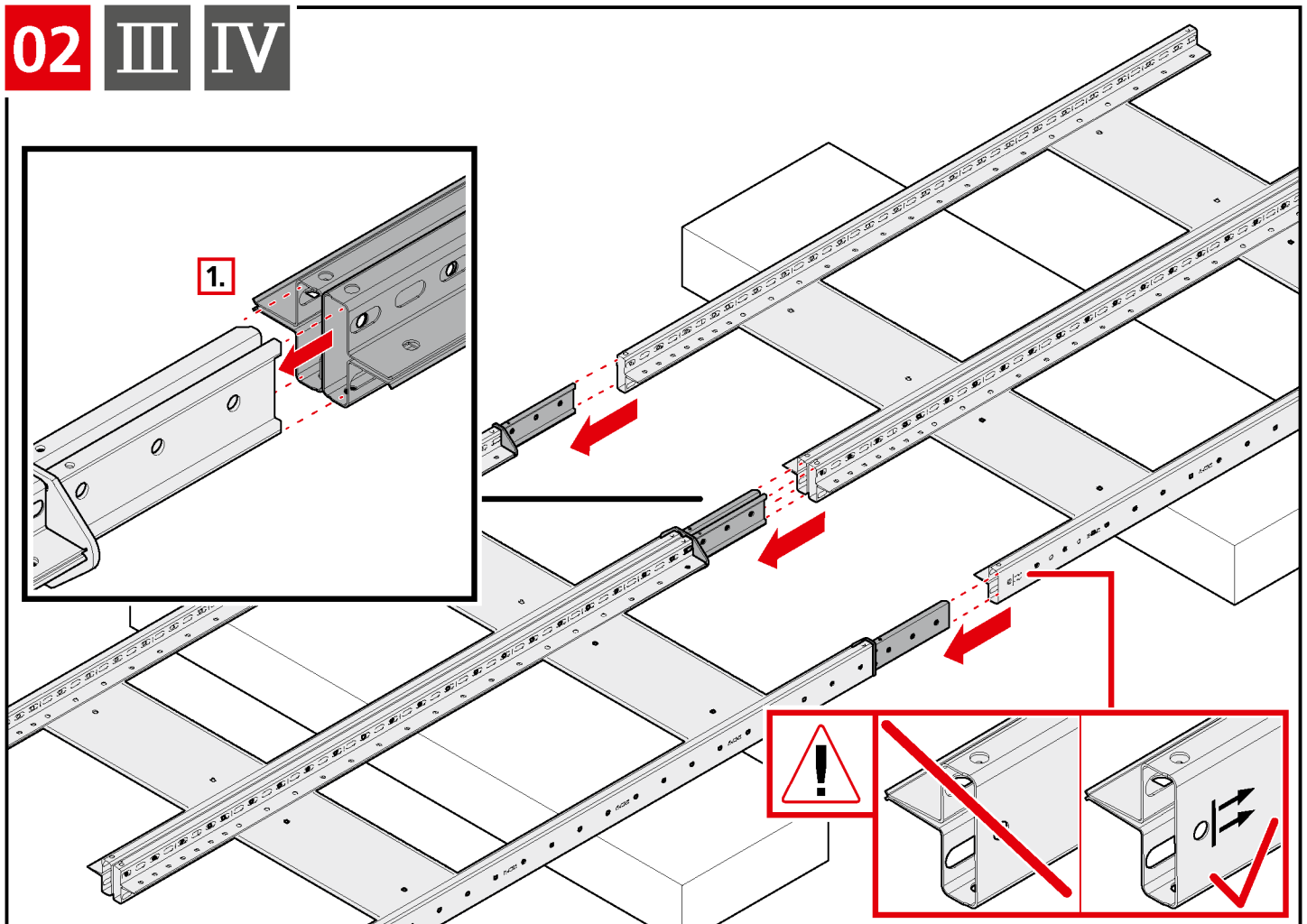
II



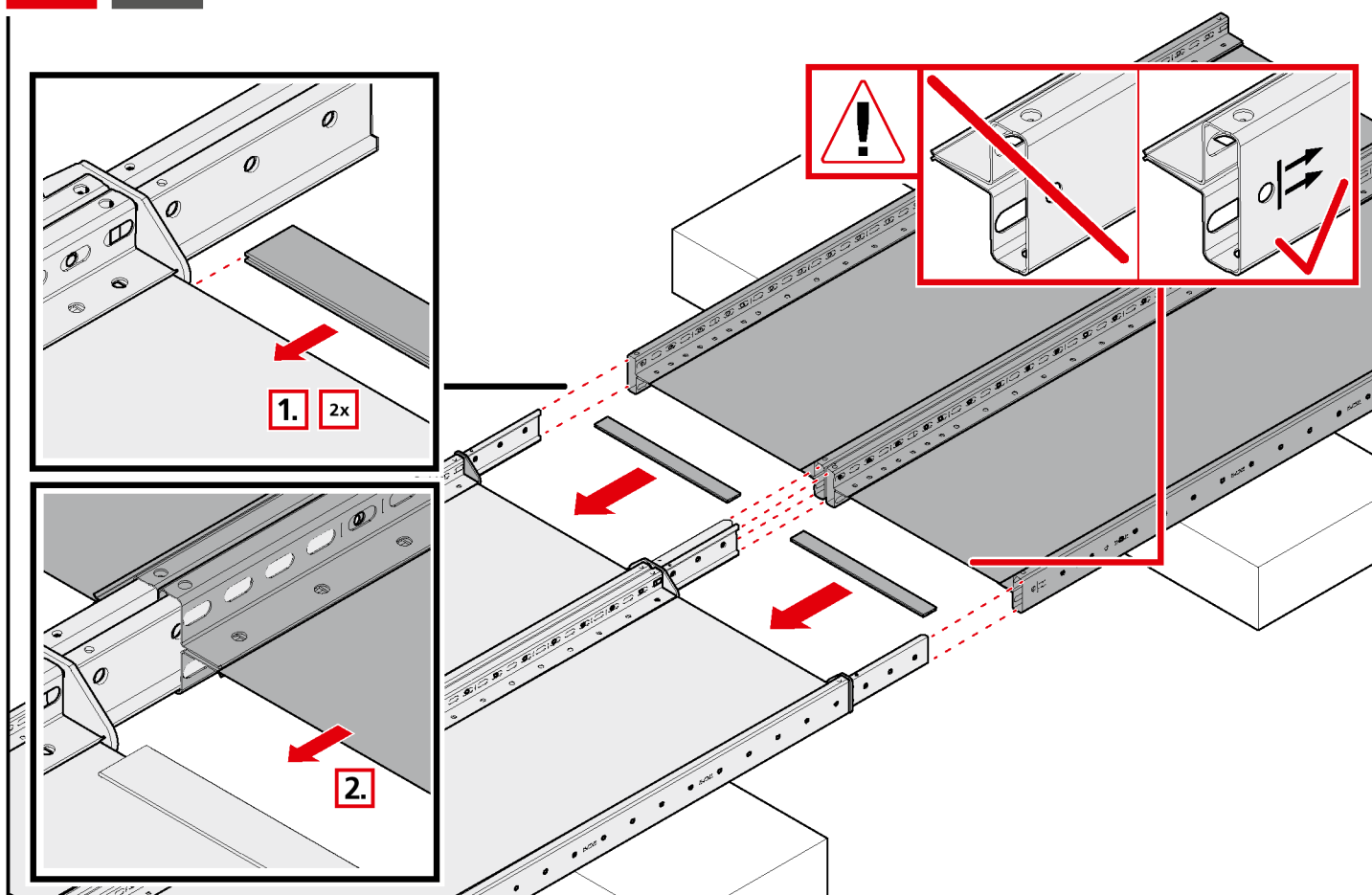
01 III IV



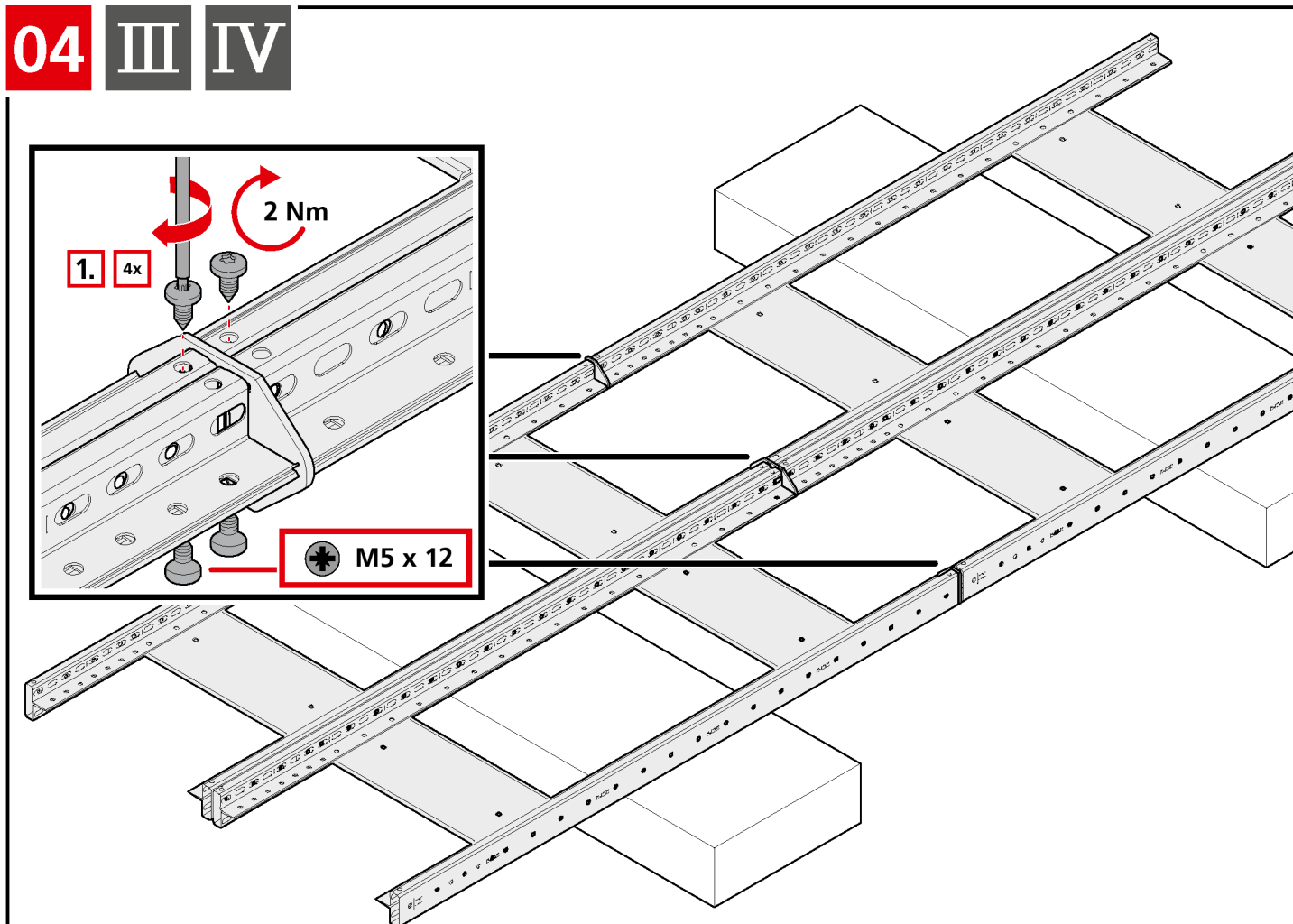
02 III IV



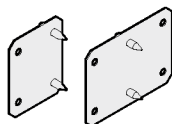
03 IV



04 III IV

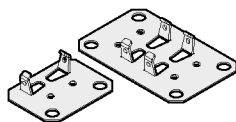


1.



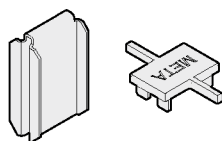
G

2.



E

3.

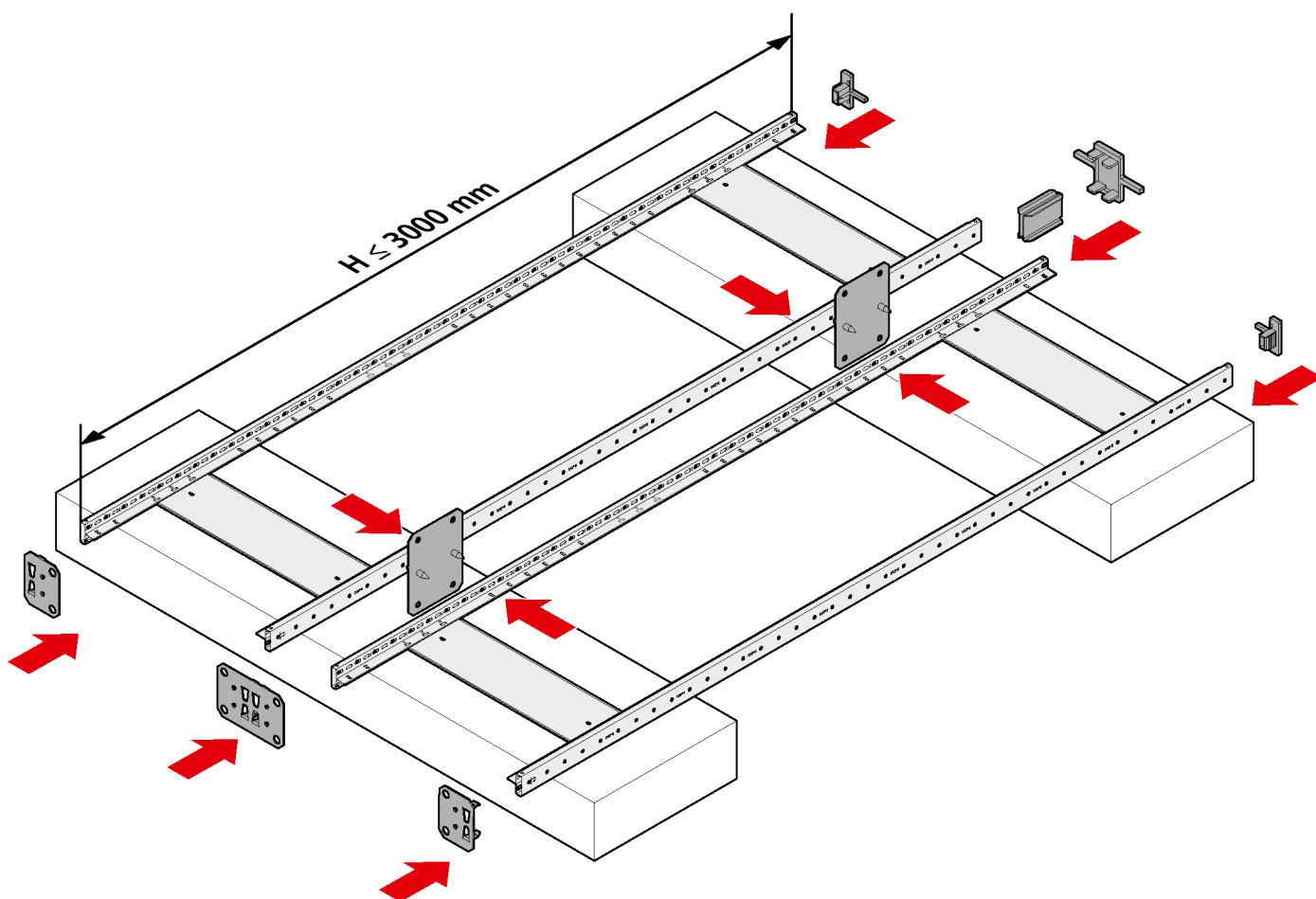


I

4.

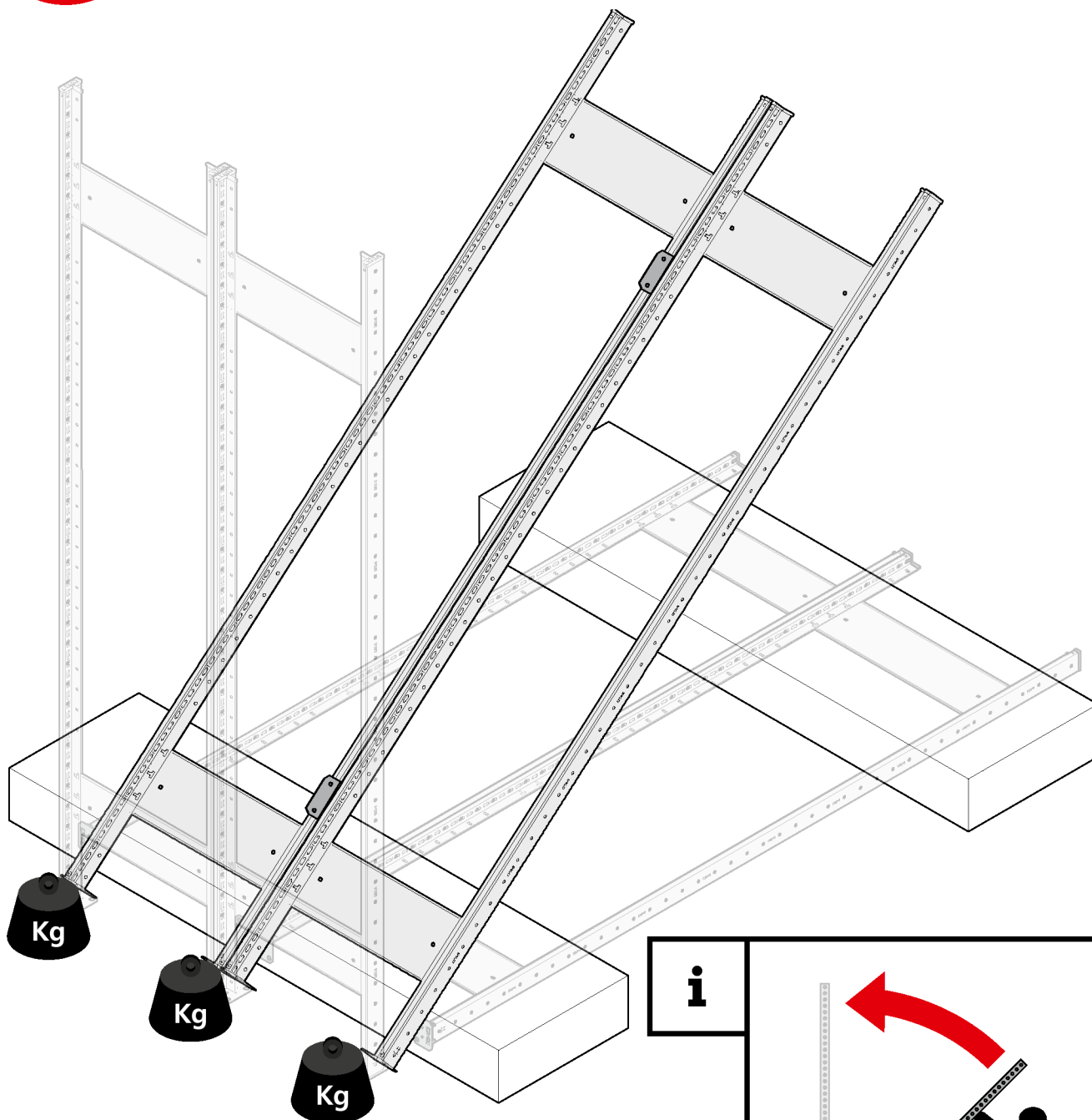
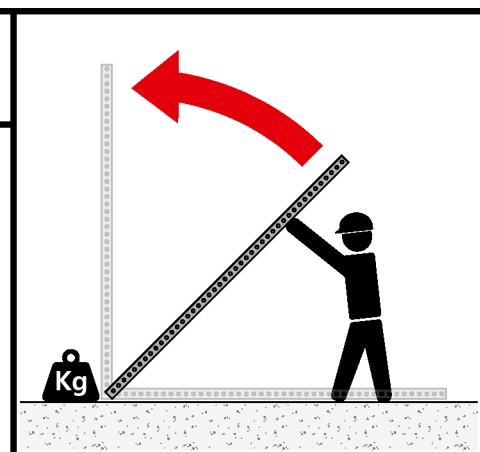


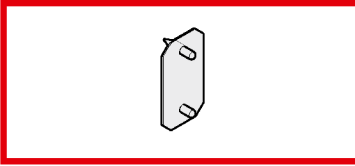
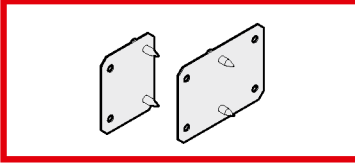
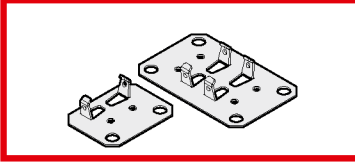
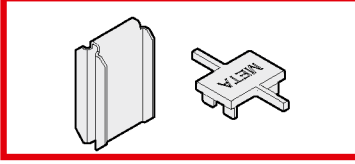
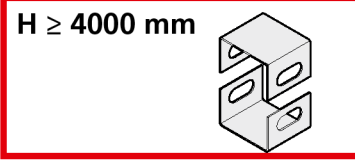
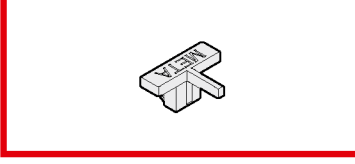
B

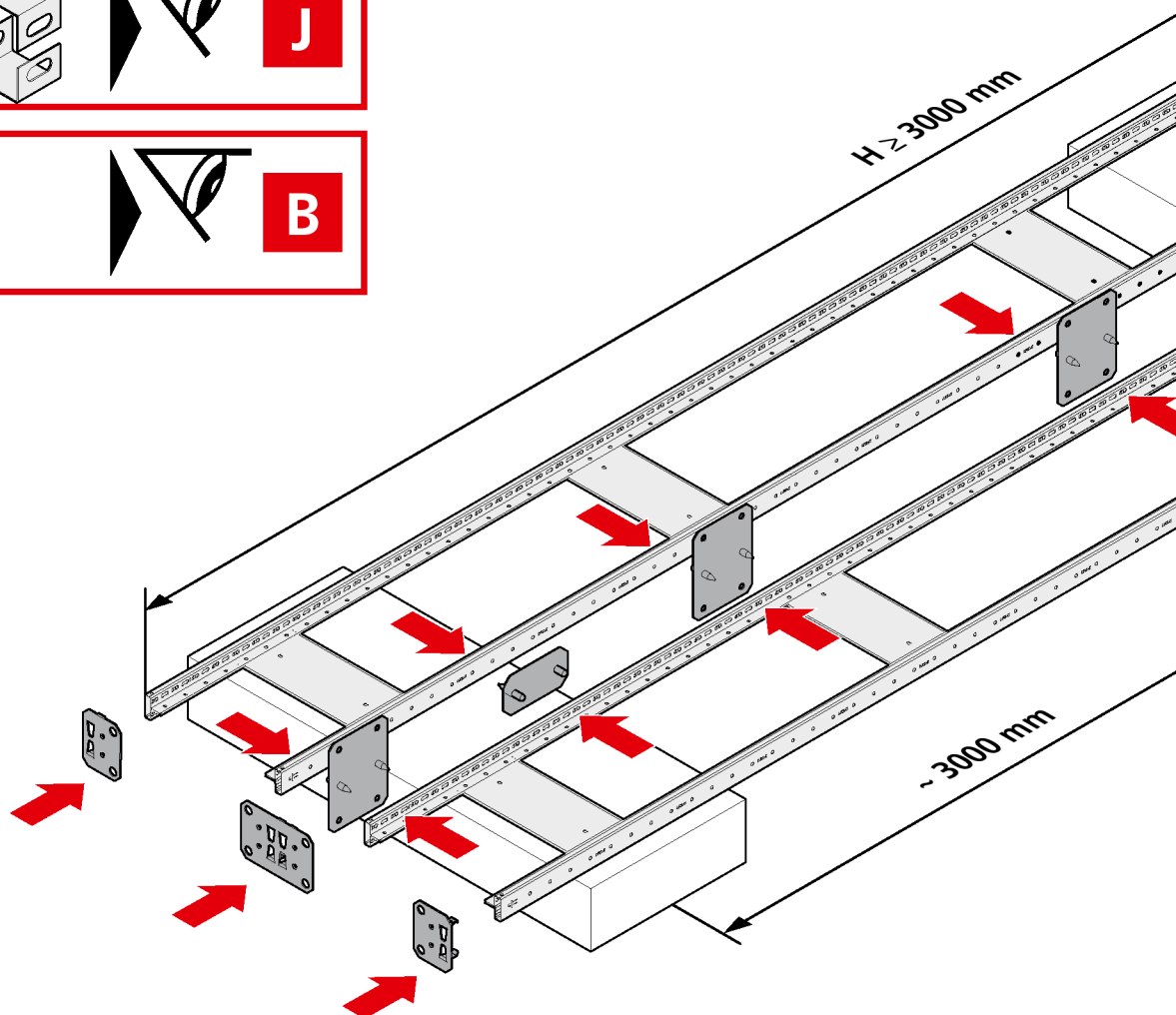




DGUV Regel 108-007

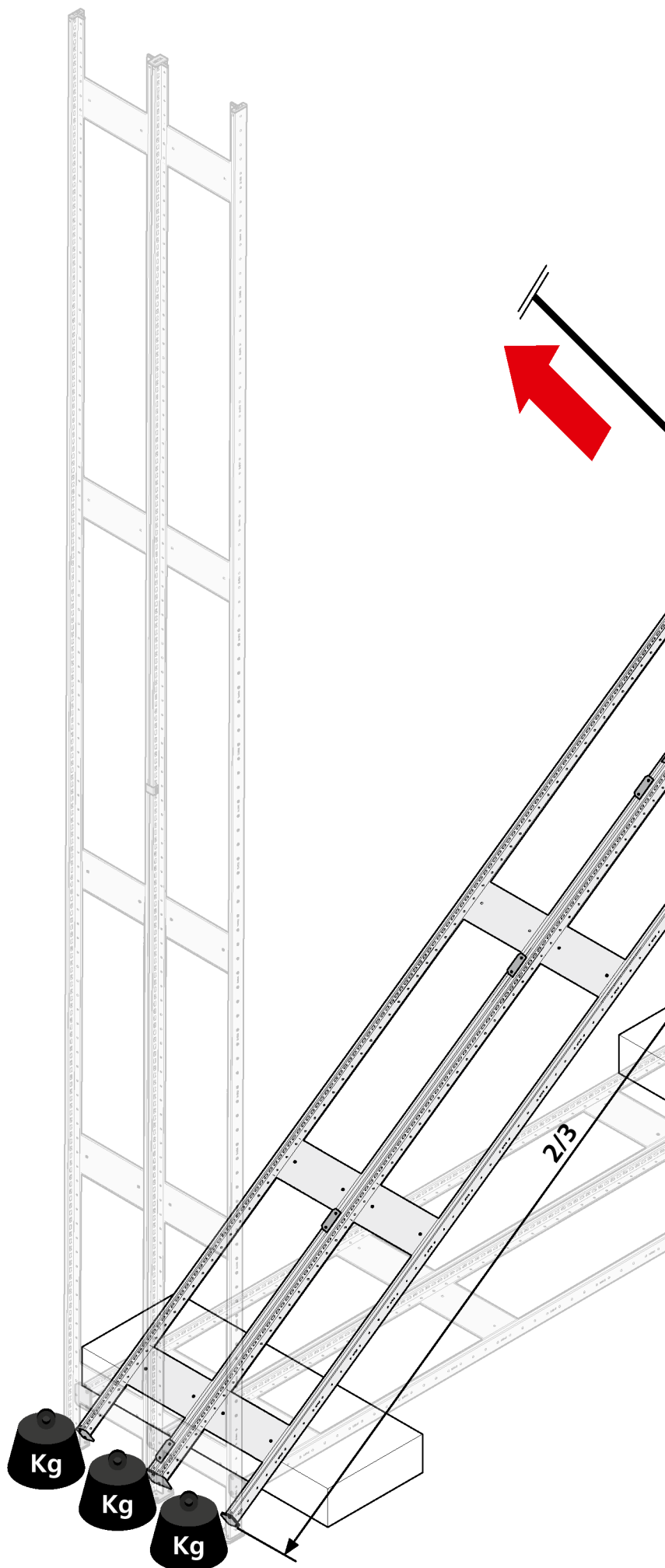
**i**

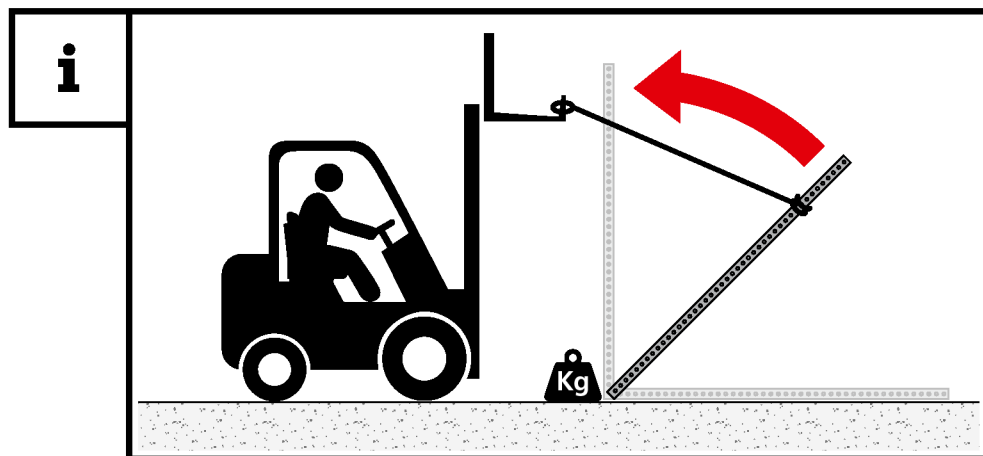
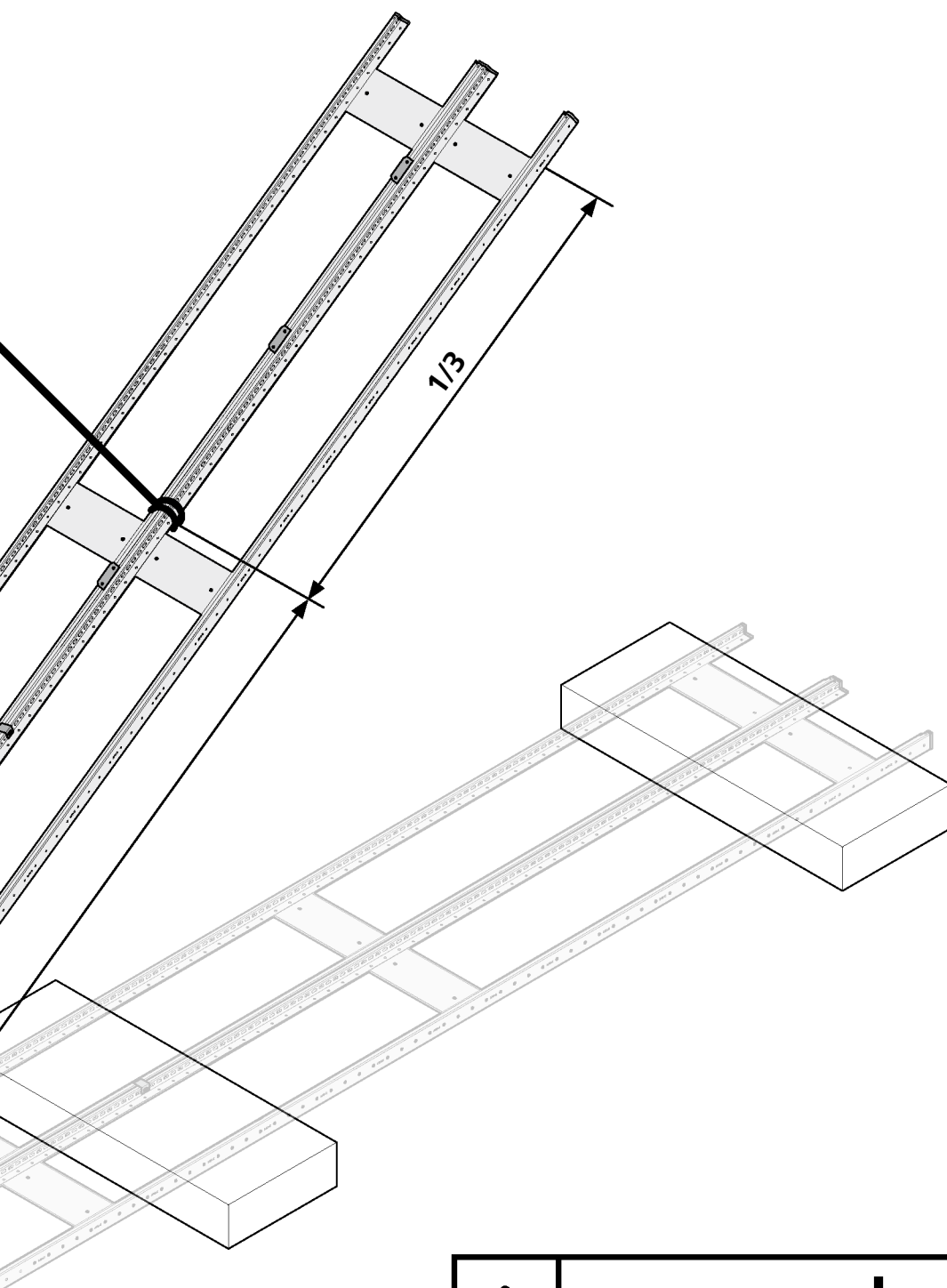
1.   **F**
2.   **H**
3.   **E**
4.   **I**
5. $H \geq 4000$ mm   **J**
6.   **B**





DGUV Regel 108-007







I

II

III

$H : d > 5 : 1$ ✗



$H : d \leq 5 : 1$

I

$H : d > 5 : 1$

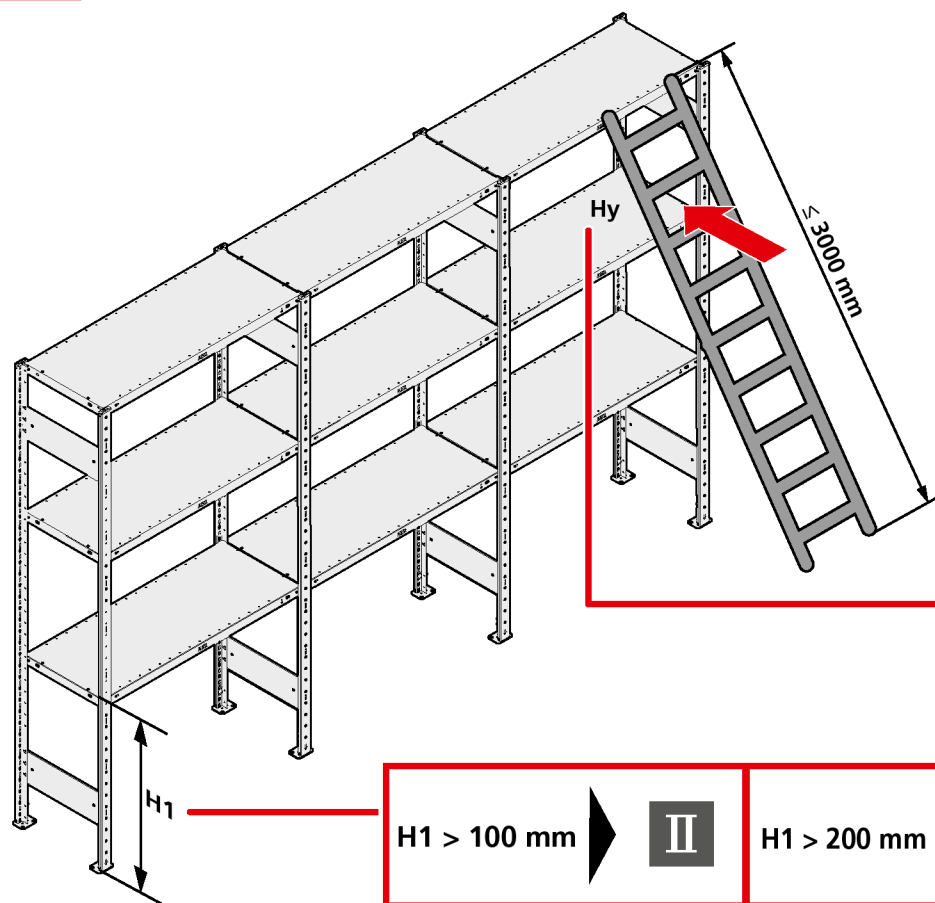
II

$H : d \leq 5 : 1$
 $\Sigma F \leq 1800 \text{ kg}$

III

$H : d > 5 : 1$ ✗

i



$H_y \geq 5 \text{ kg}$

II

$H_1 > 100 \text{ mm}$

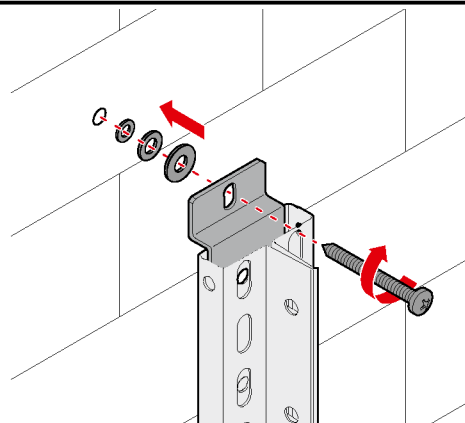
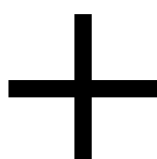
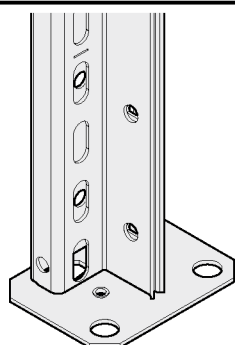
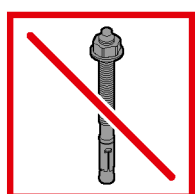
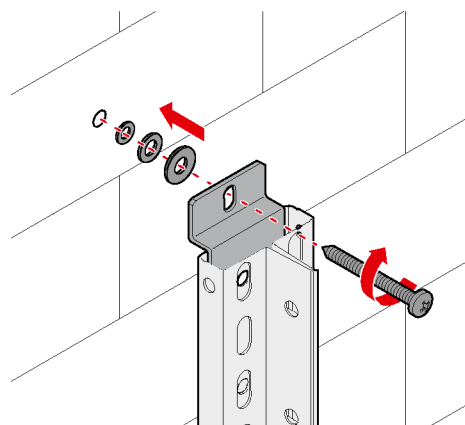
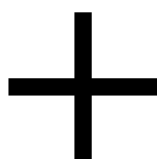
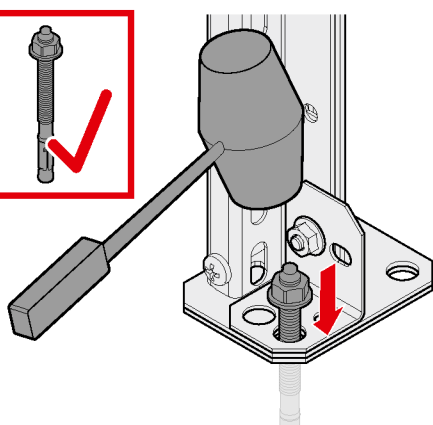
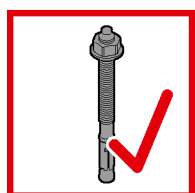
II

$H_1 > 200 \text{ mm}$

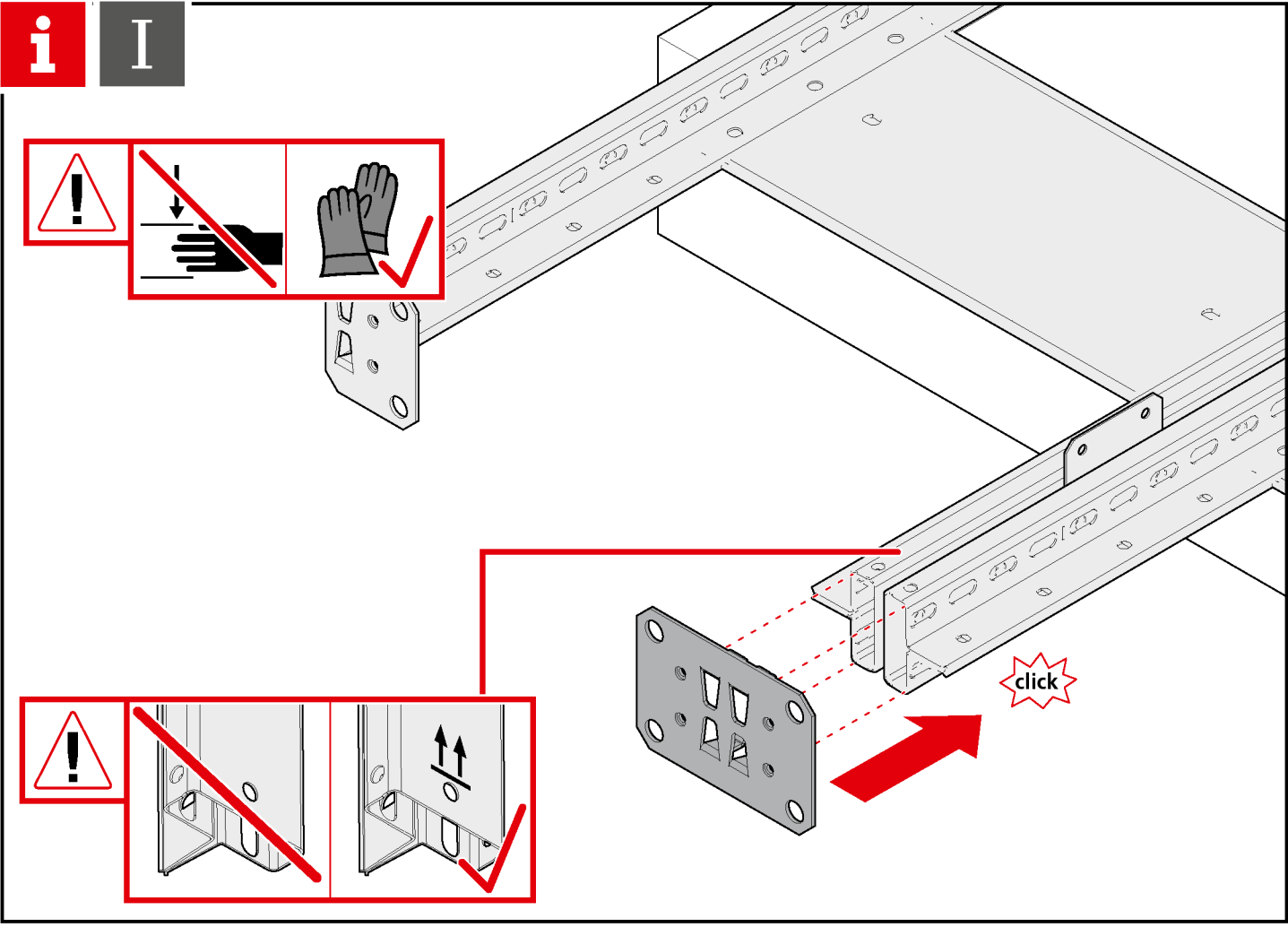
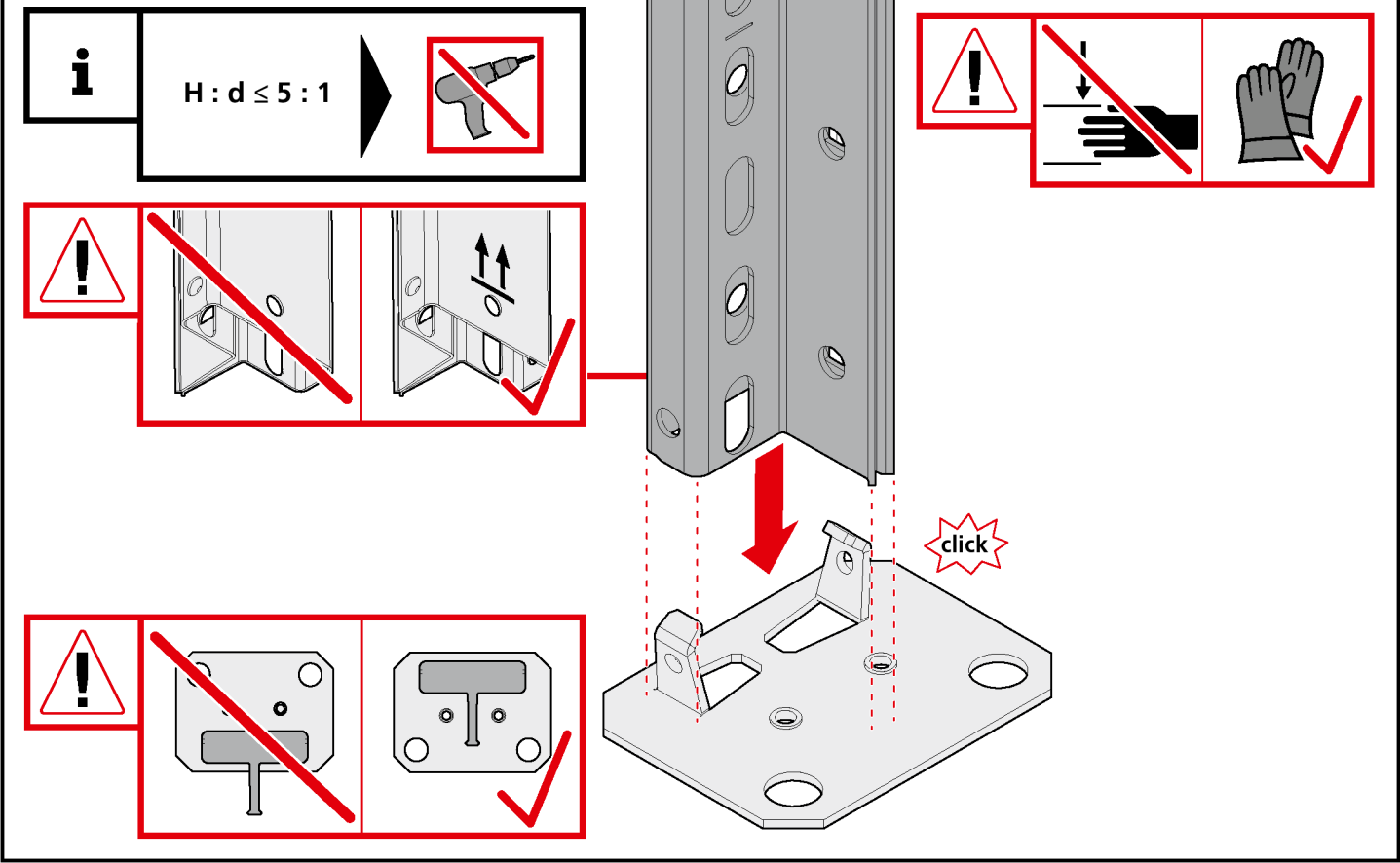


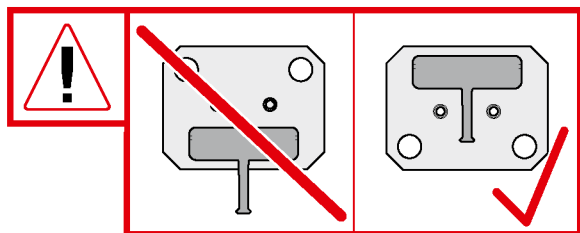
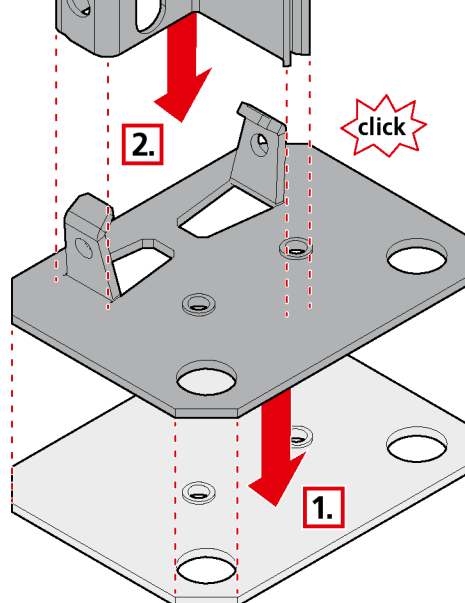
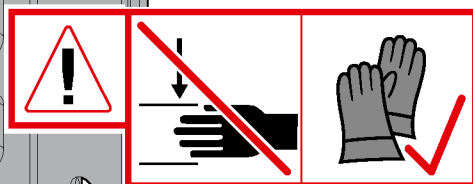
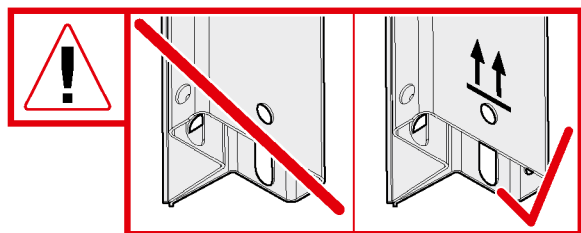
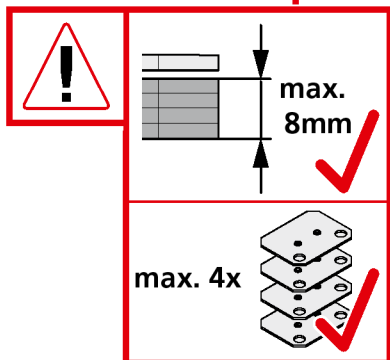
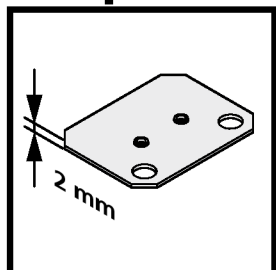
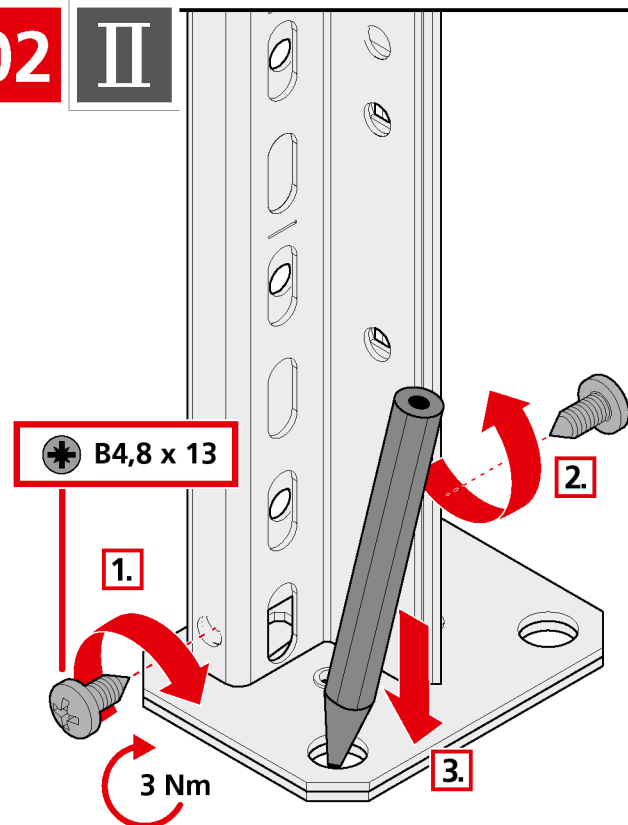
+49 2932 9570

i



01 I

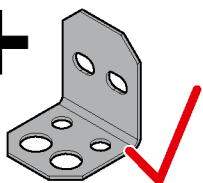


01**II****i****II****02****II**

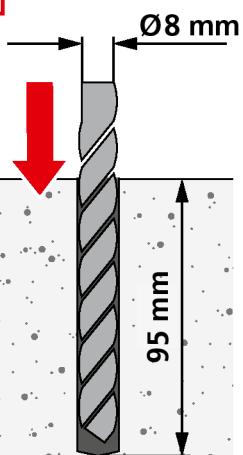
03

II

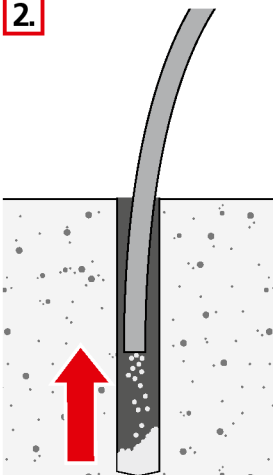
i

 $H \geq 3000 \text{ mm}$ 

1.



2.



4.



10 Nm

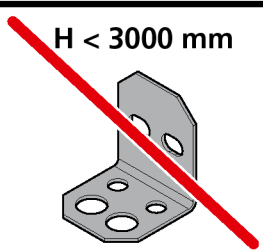
M6 x 10

3.

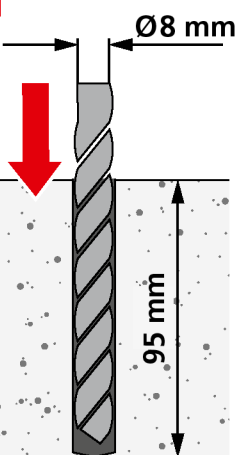
03

II

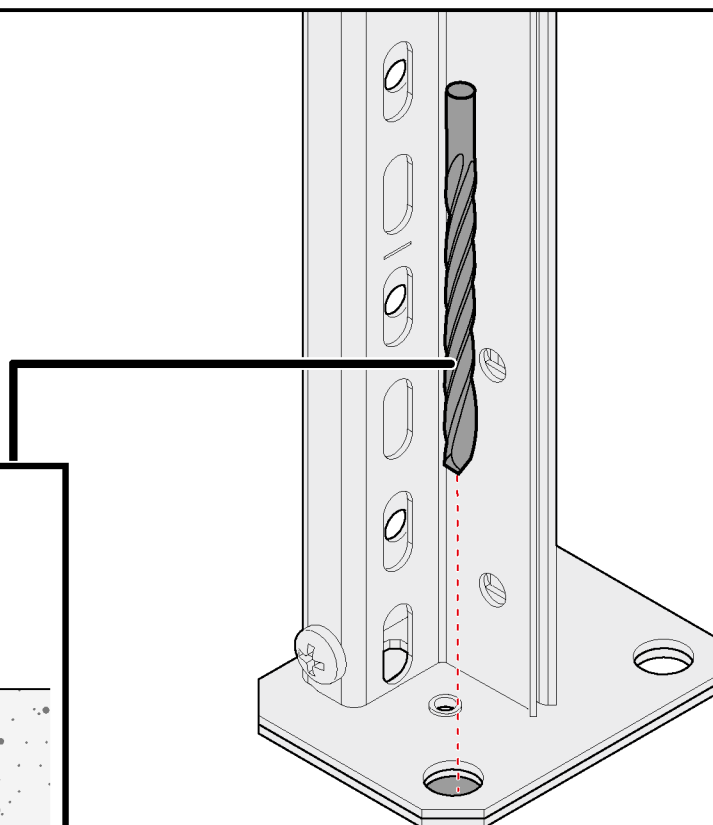
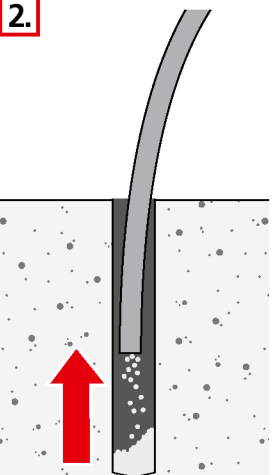
i

 $H < 3000 \text{ mm}$ 

1.

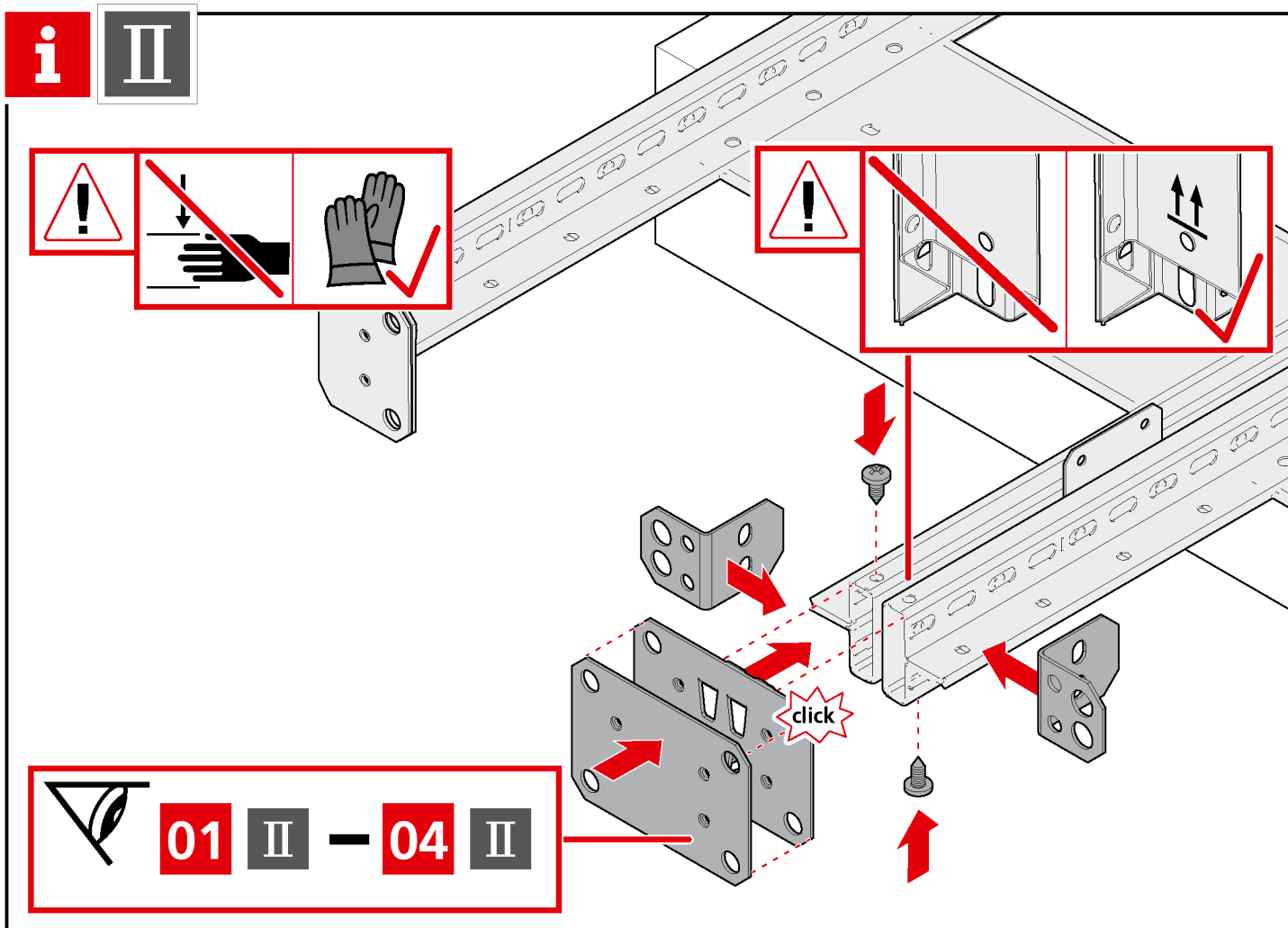
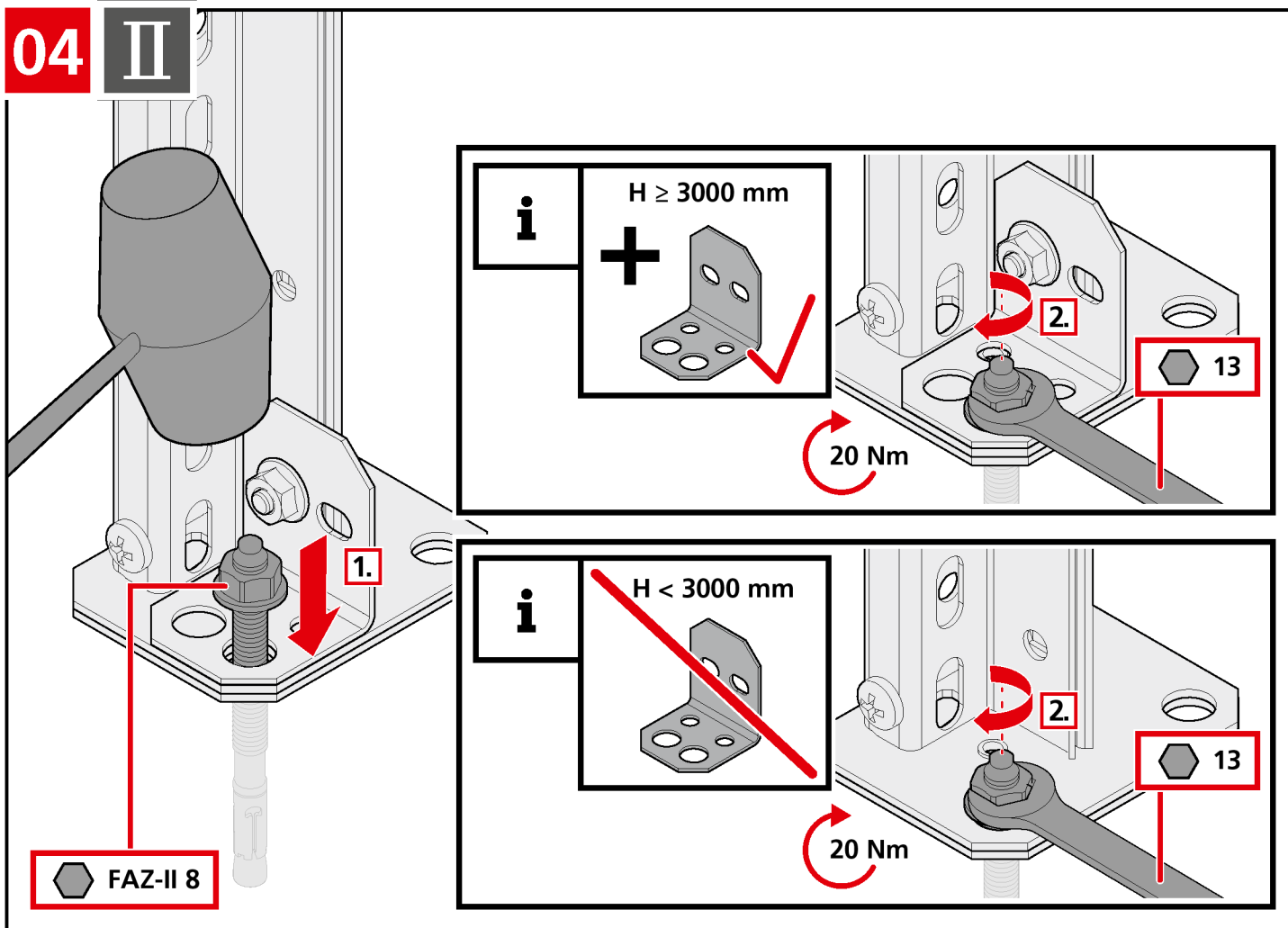


2.



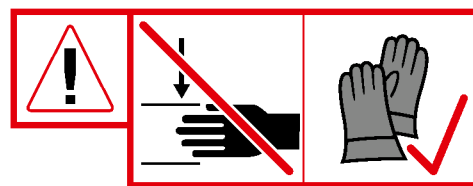
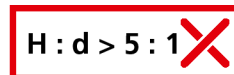
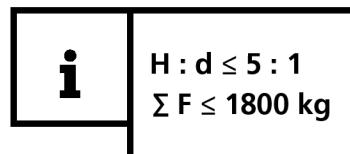
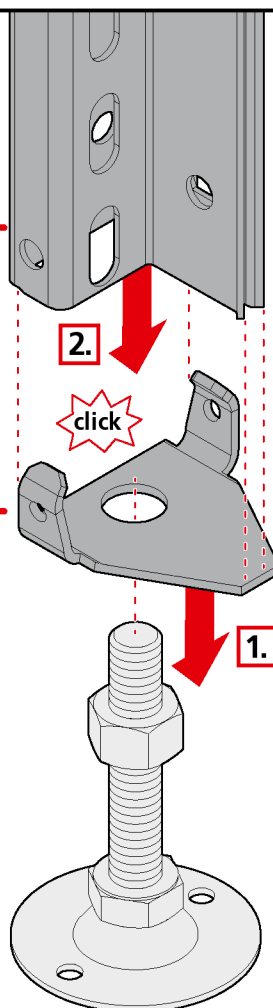
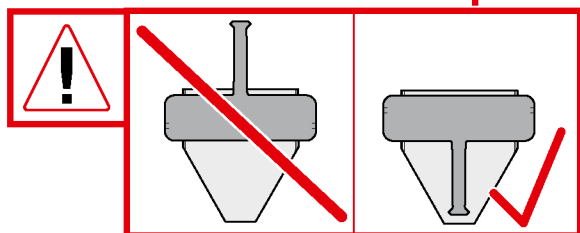
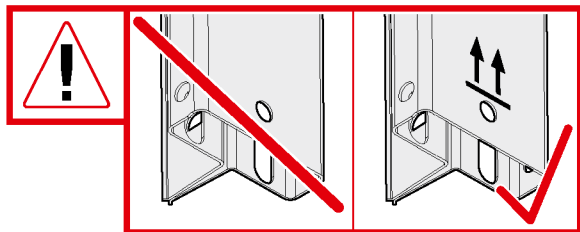
04

II



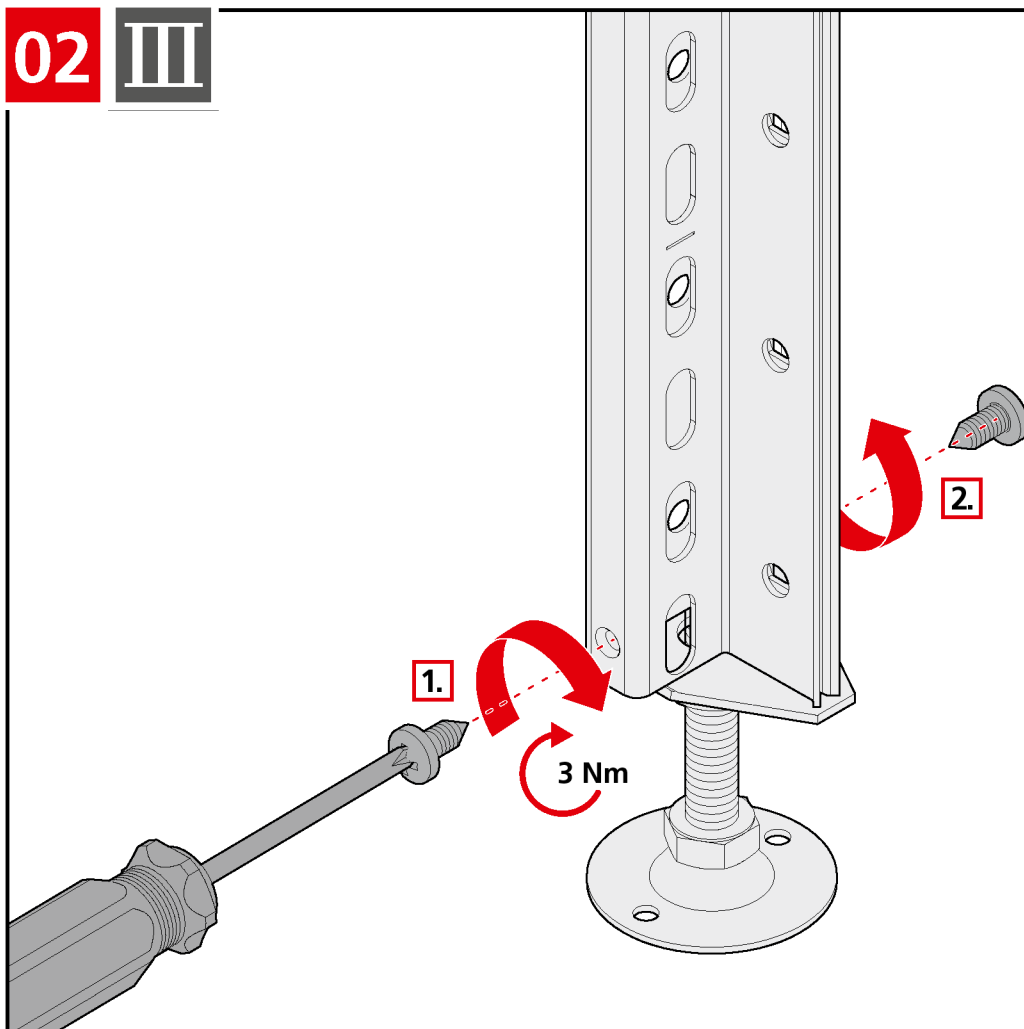
01

III



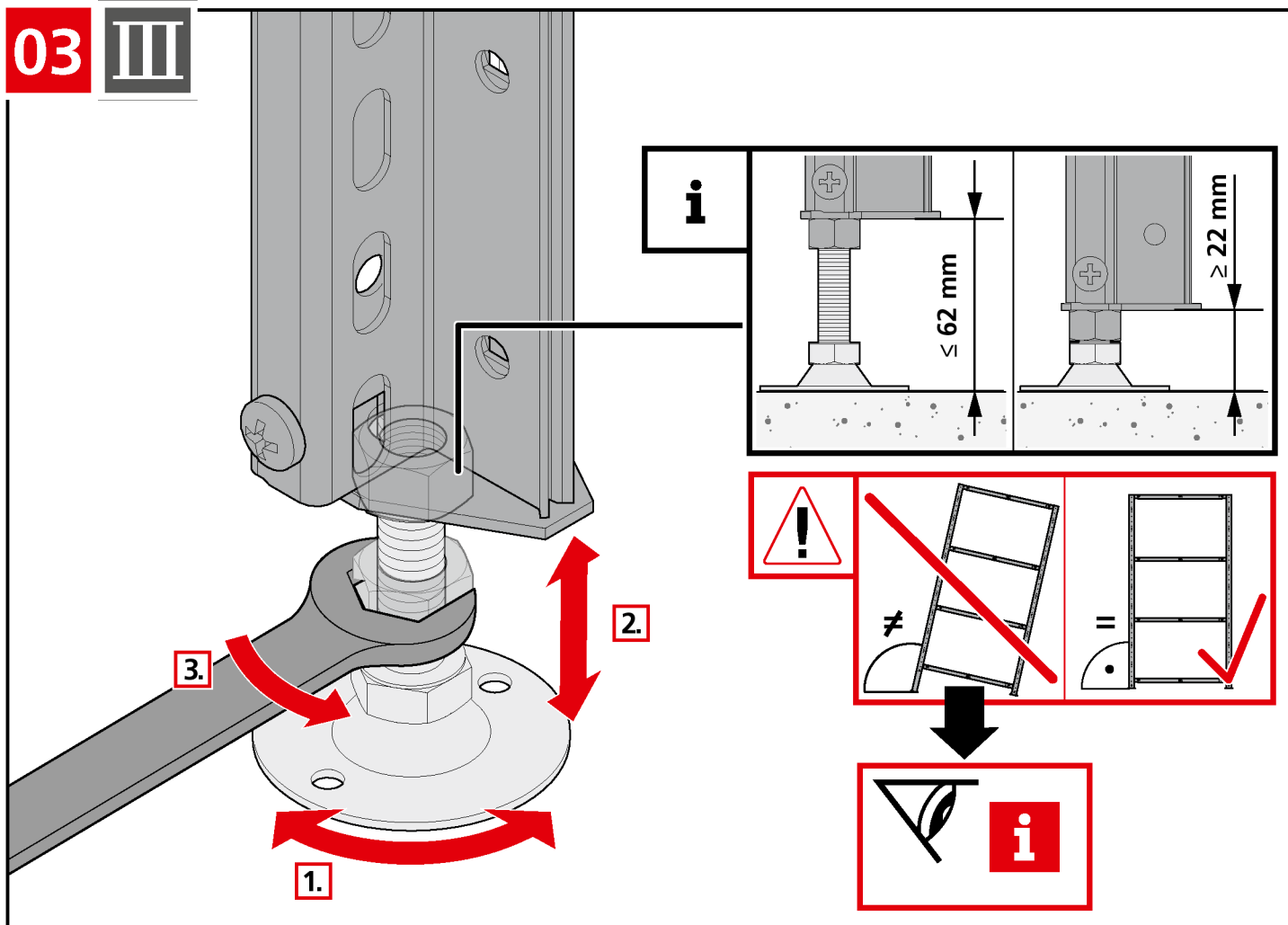
02

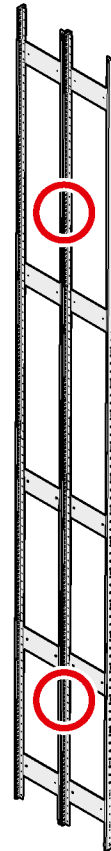
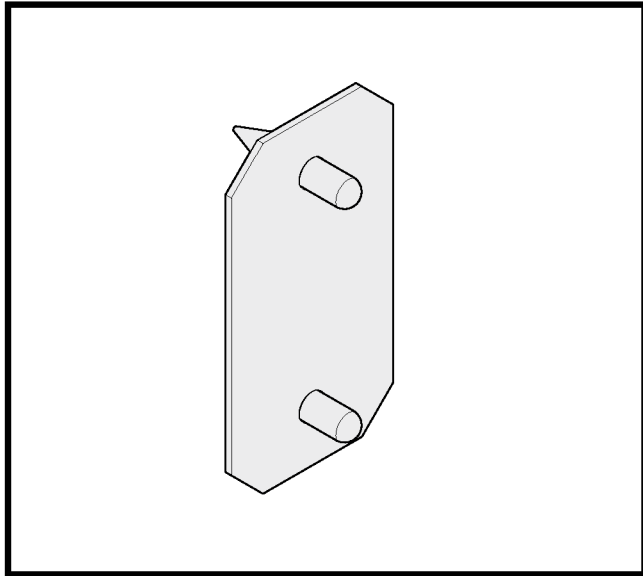
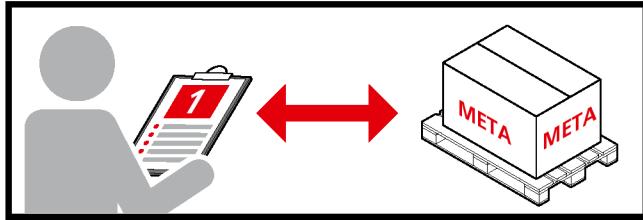
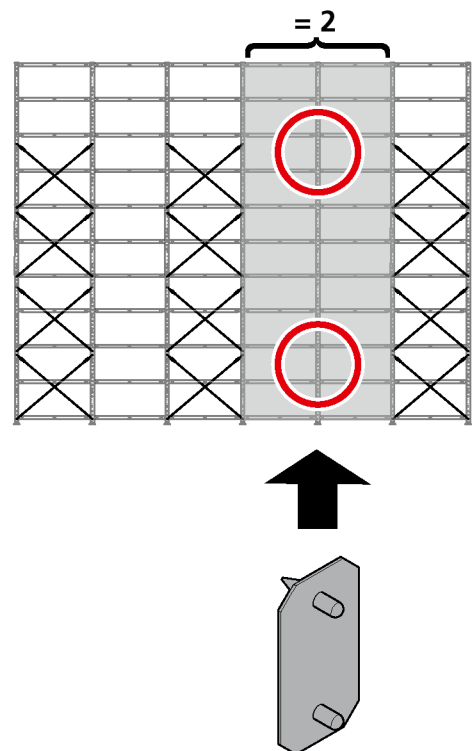
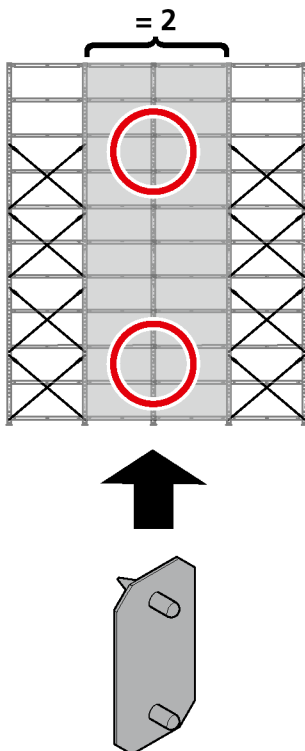
III

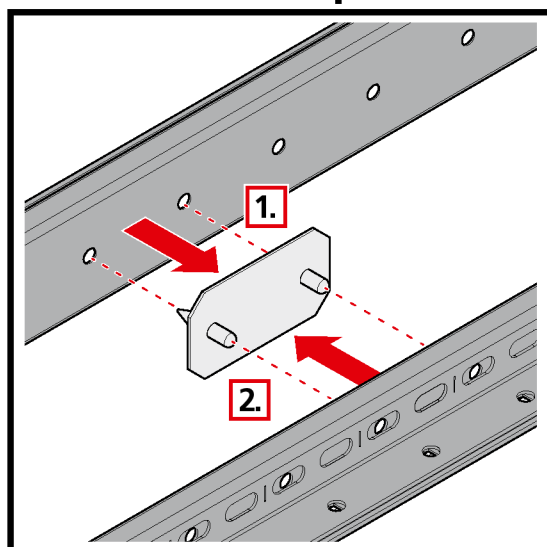
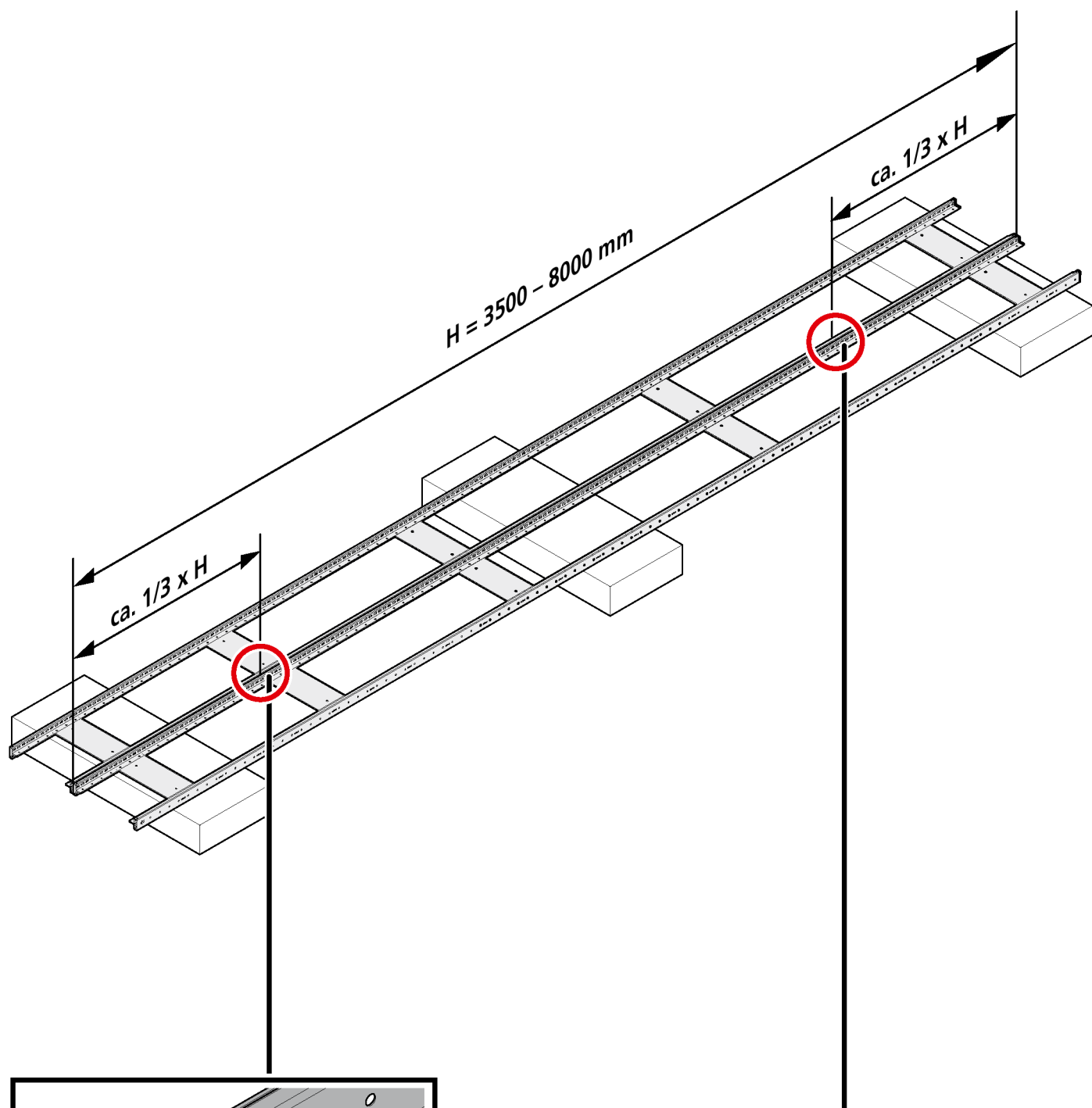


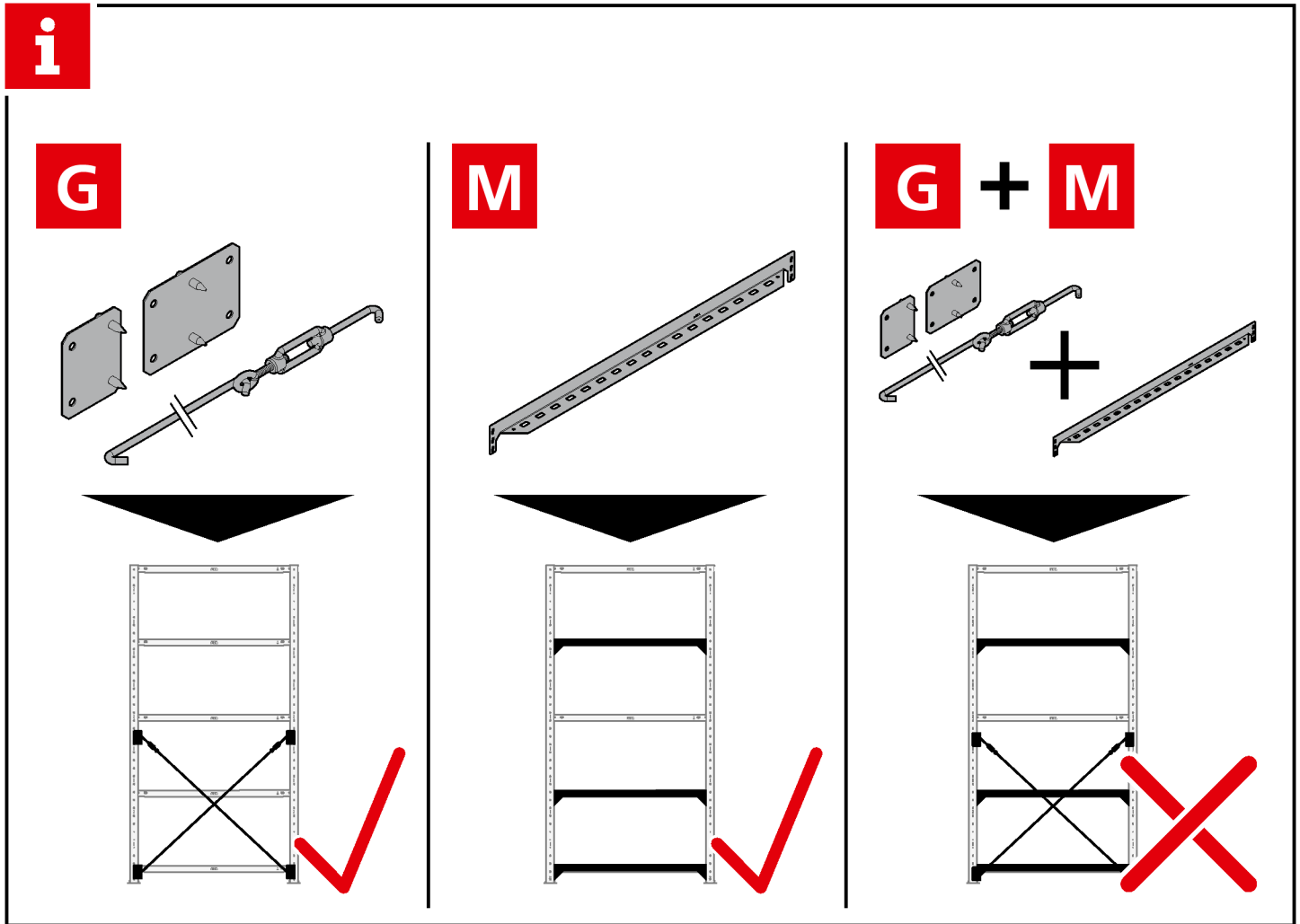
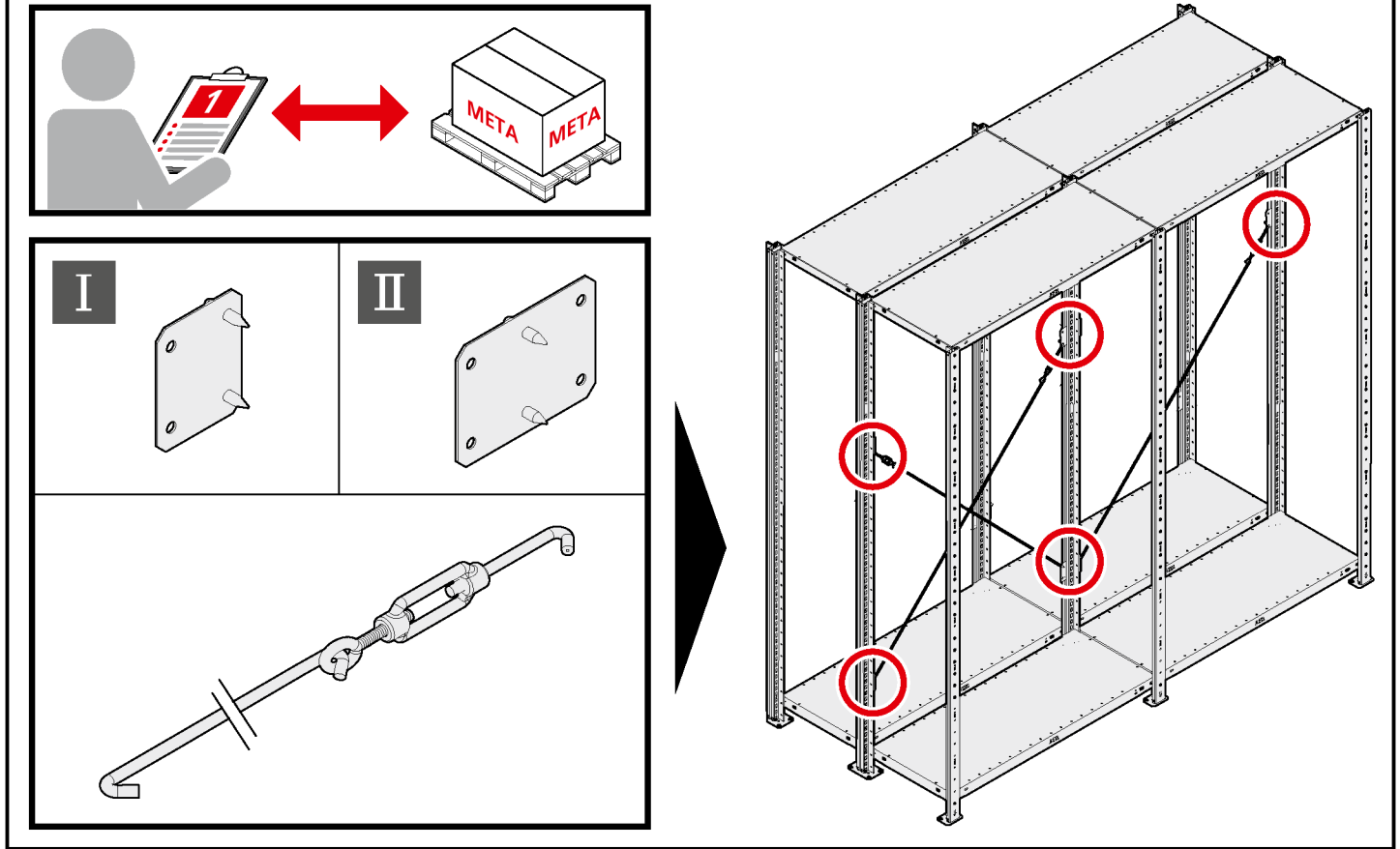
03

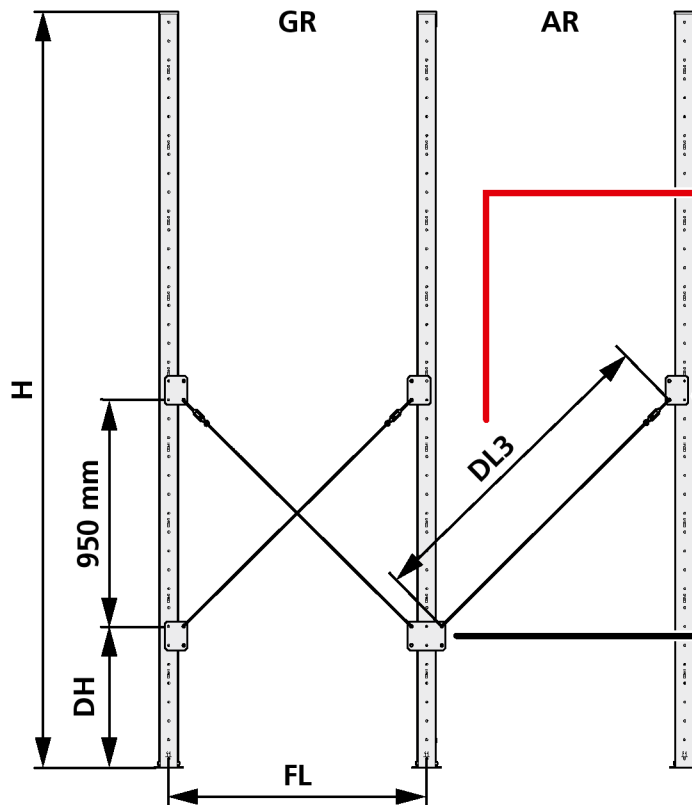
III



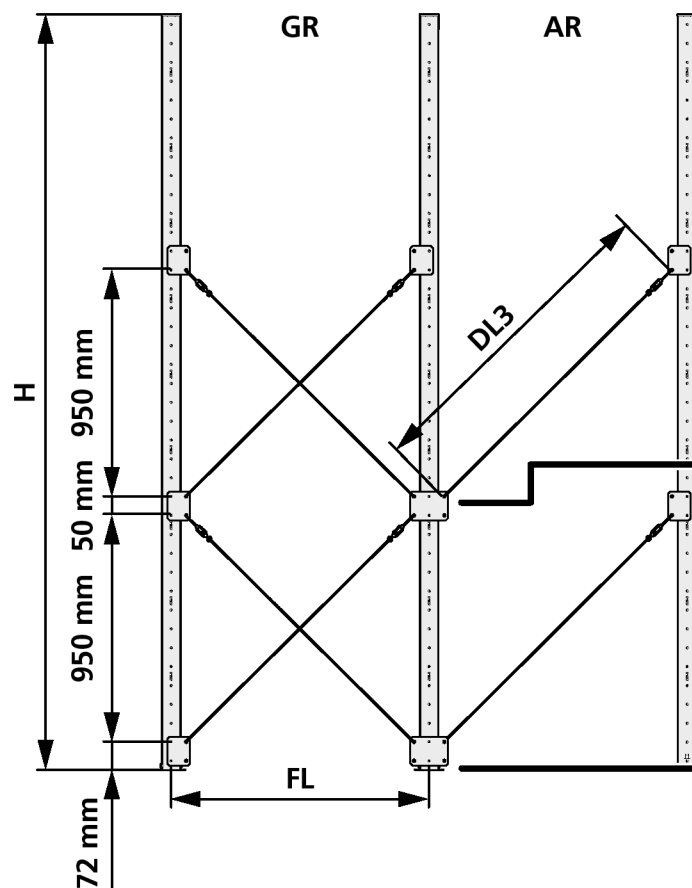
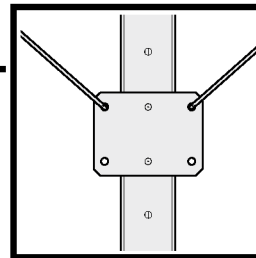
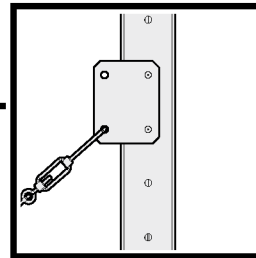
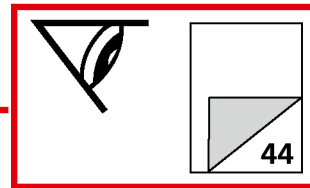
F $H \geq 3500$ **i**



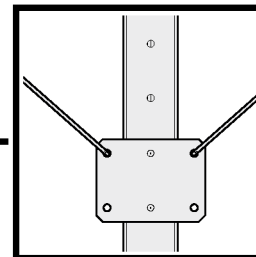
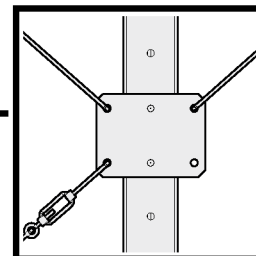
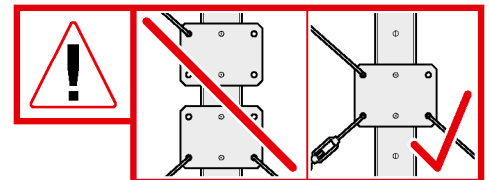




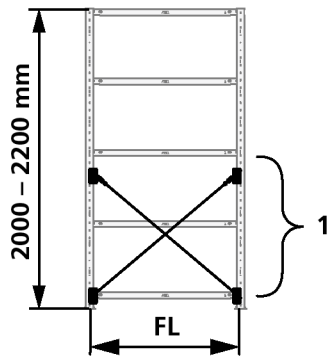
	2000 x 1000 / 1300 / 1500 / 1700	2200 x 1000 / 1300 / 1500 / 1700
H	1994 mm	2194 mm
DH	322 mm	472 mm



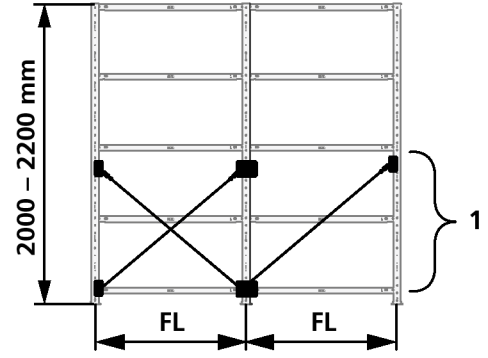
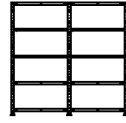
	2500 x 1000 / 1300 / 1500 / 1700	3000 x 1000 / 1300 / 1500 / 1700
H	2494 mm	2994 mm



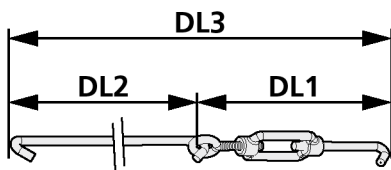
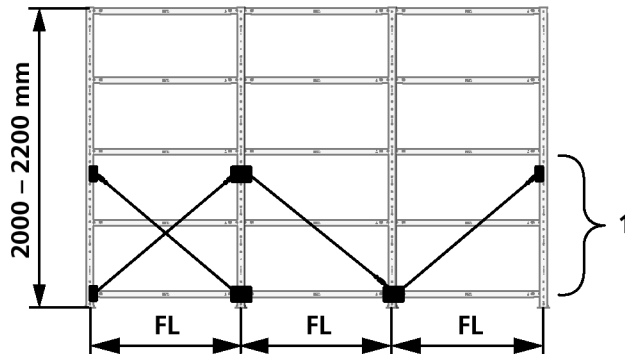
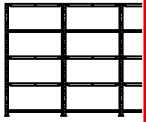
1x



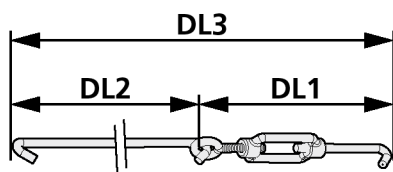
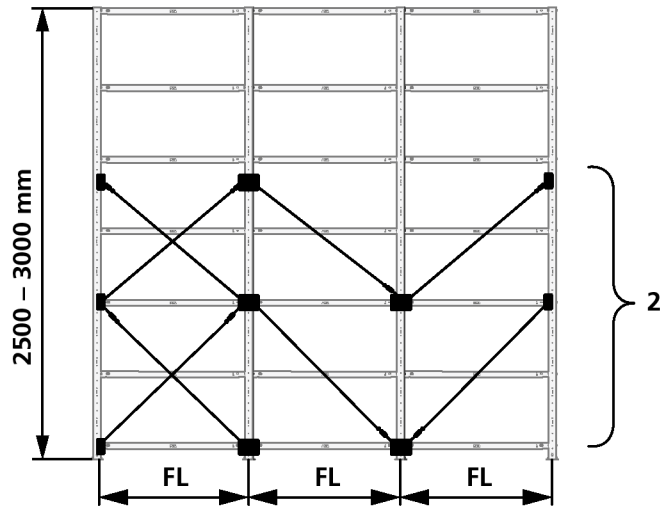
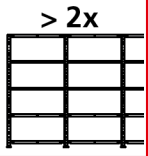
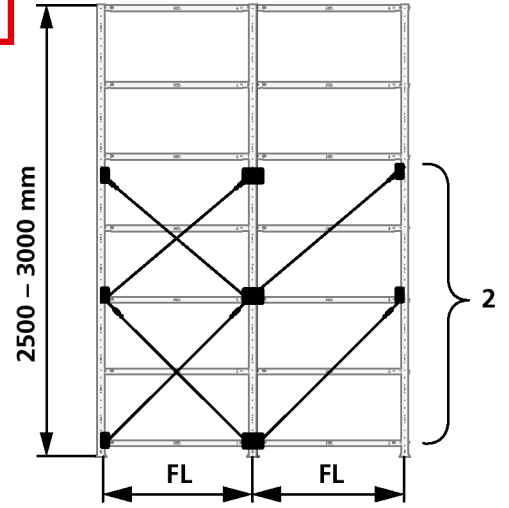
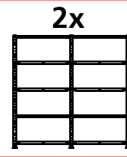
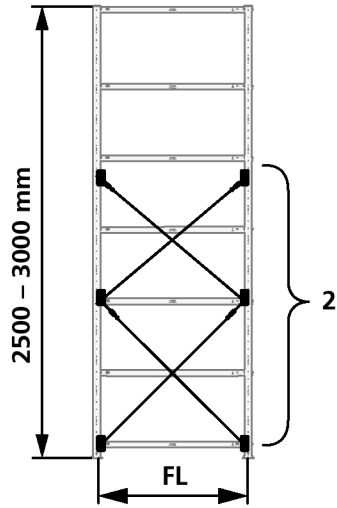
2x



> 2x



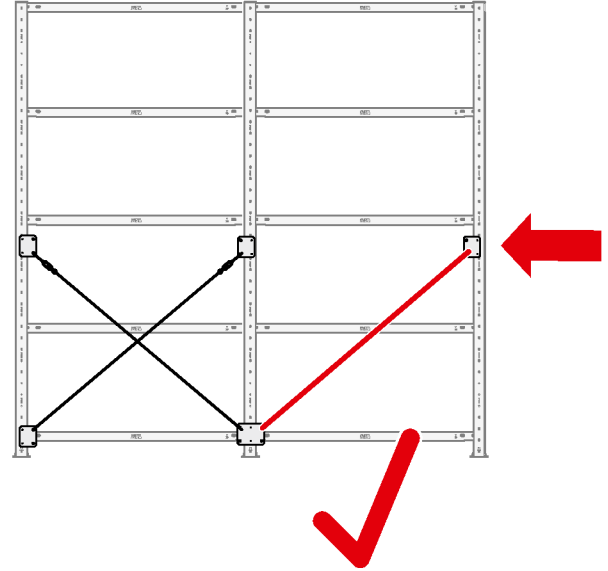
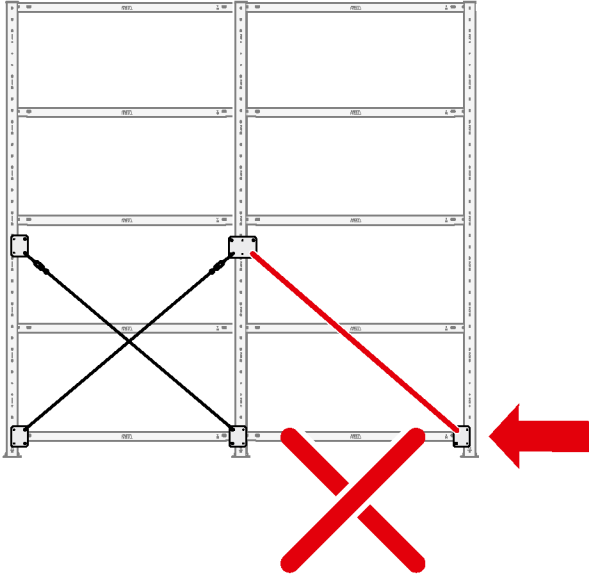
FL	DL3	DL2
1000 mm	1327 mm	1176 mm
1300 mm	1551 mm	1405 mm
1500 mm	1714 mm	1575 mm
1700 mm	1883 mm	1748 mm



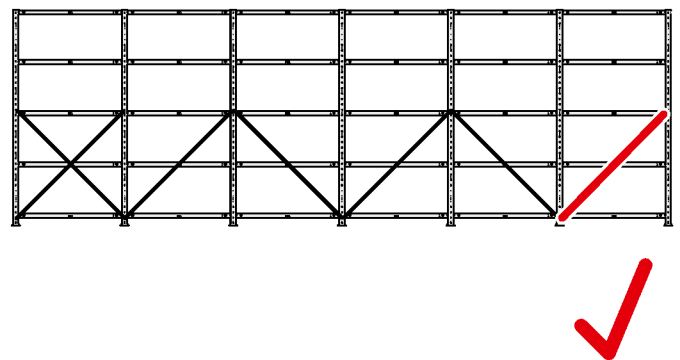
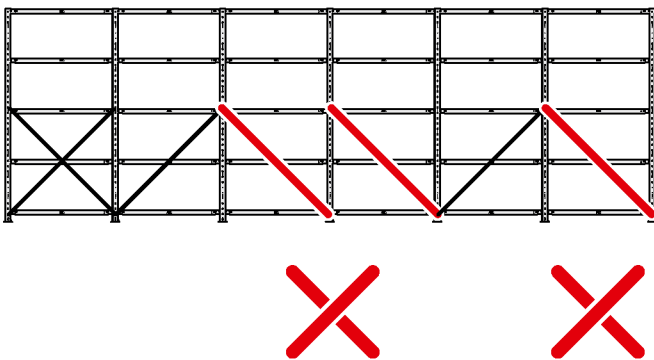
FL	DL3	DL2
1000 mm	1327 mm	1176 mm
1300 mm	1551 mm	1405 mm
1500 mm	1714 mm	1575 mm
1700 mm	1883 mm	1748 mm



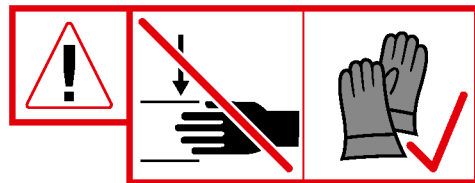
2x



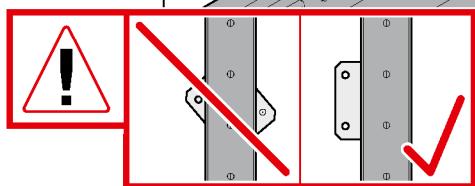
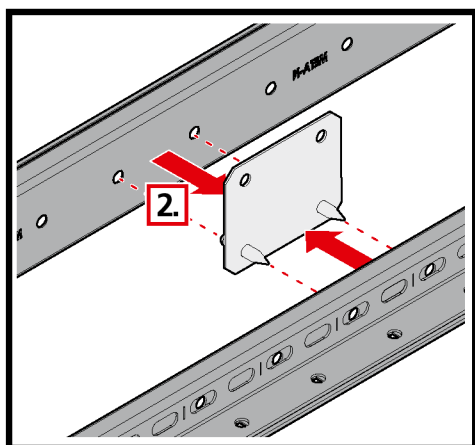
> 2x



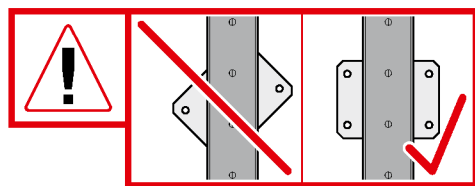
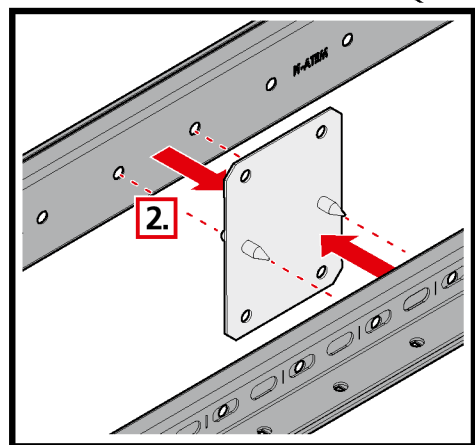
1.



I

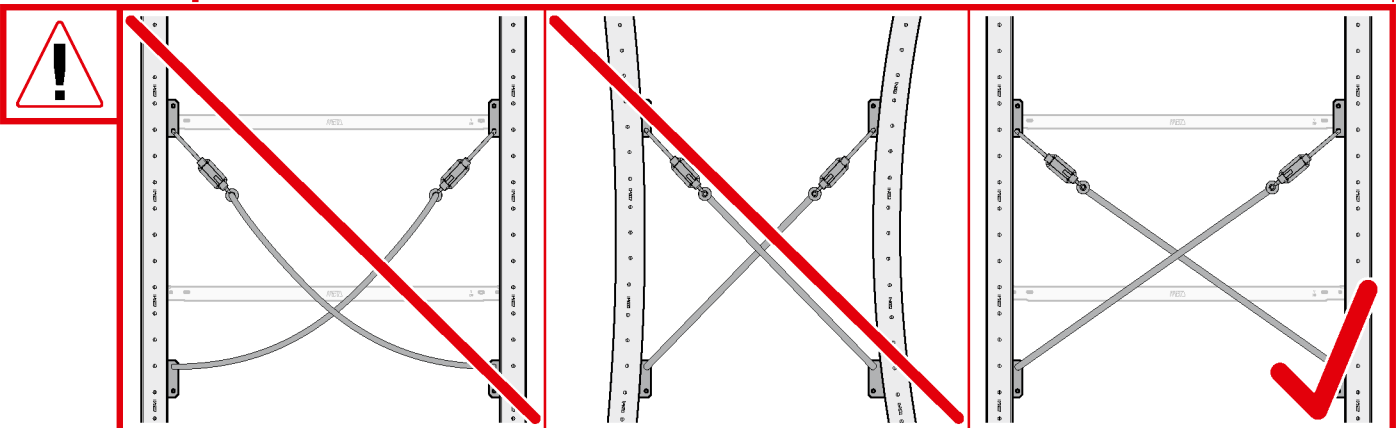
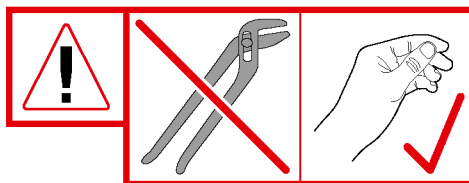
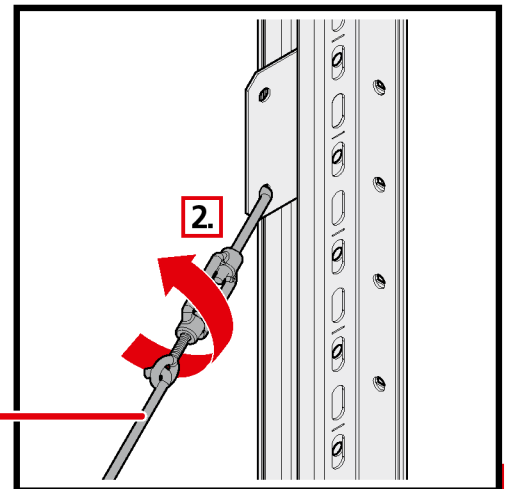
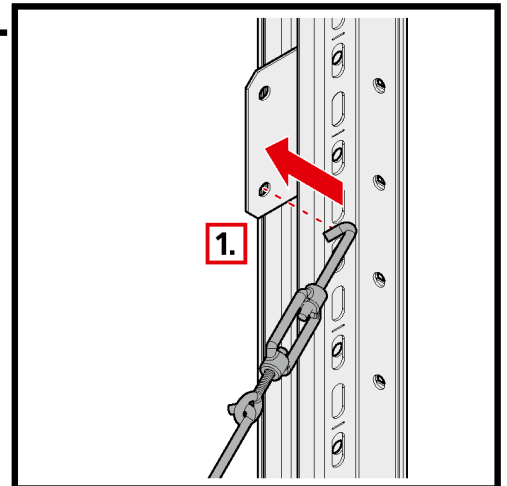
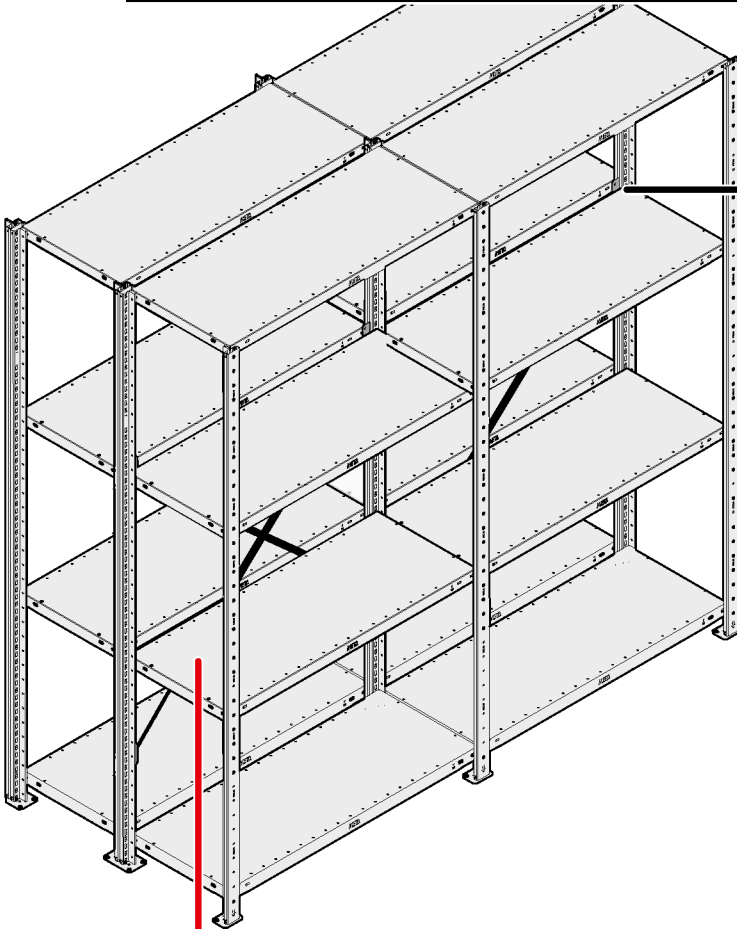
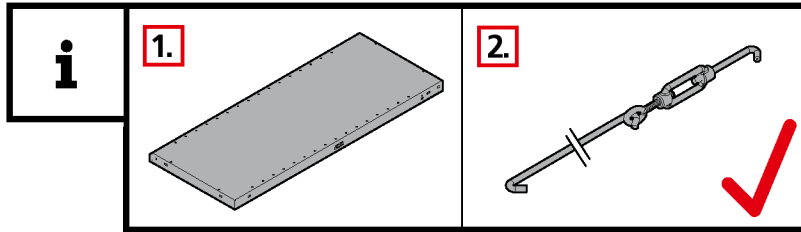


II



3.





?

i

A

B

C

D

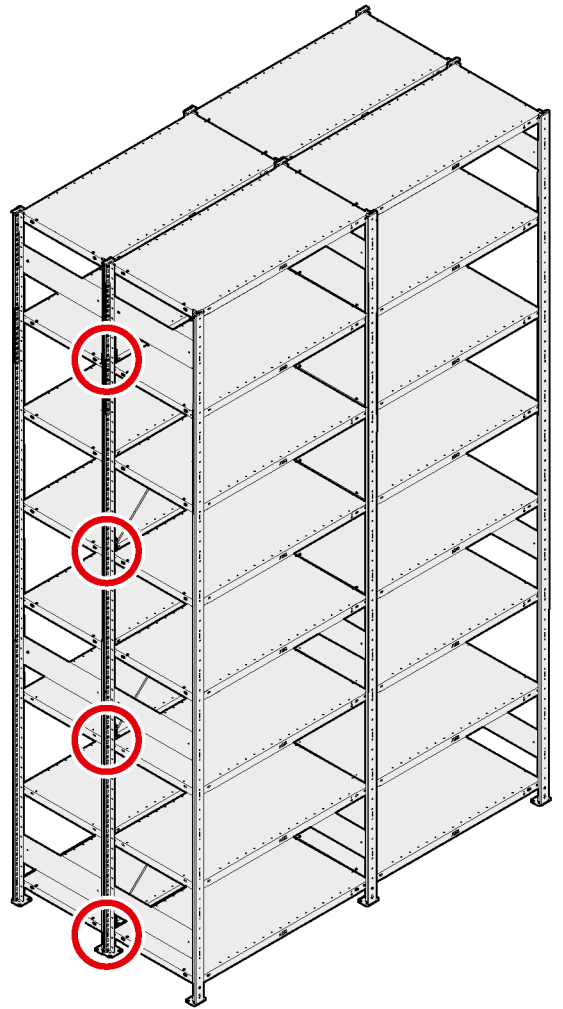
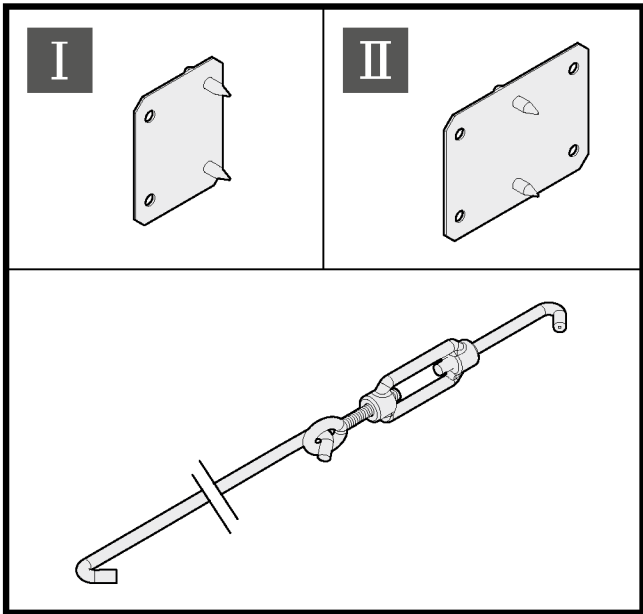
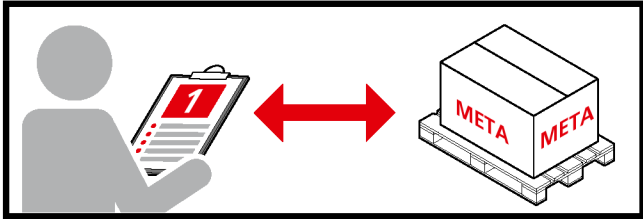
E

F

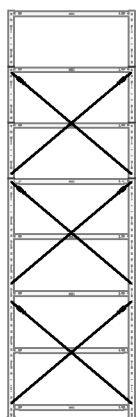
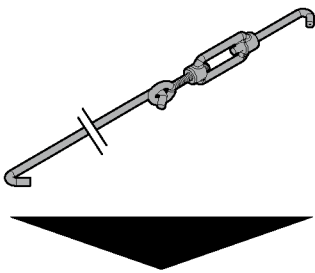
G



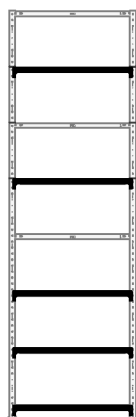
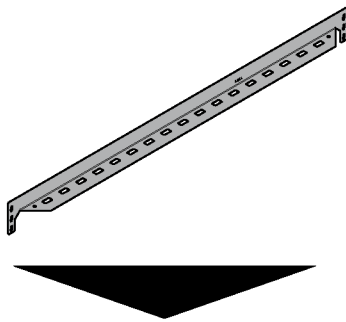
H ≥ 3000



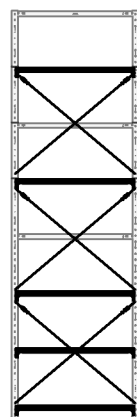
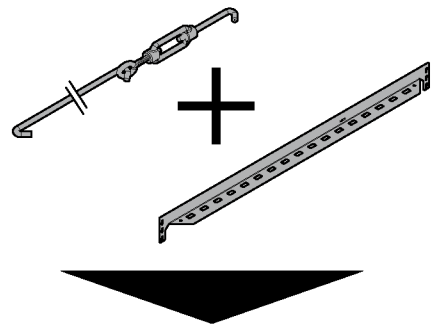
H

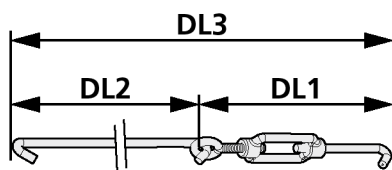
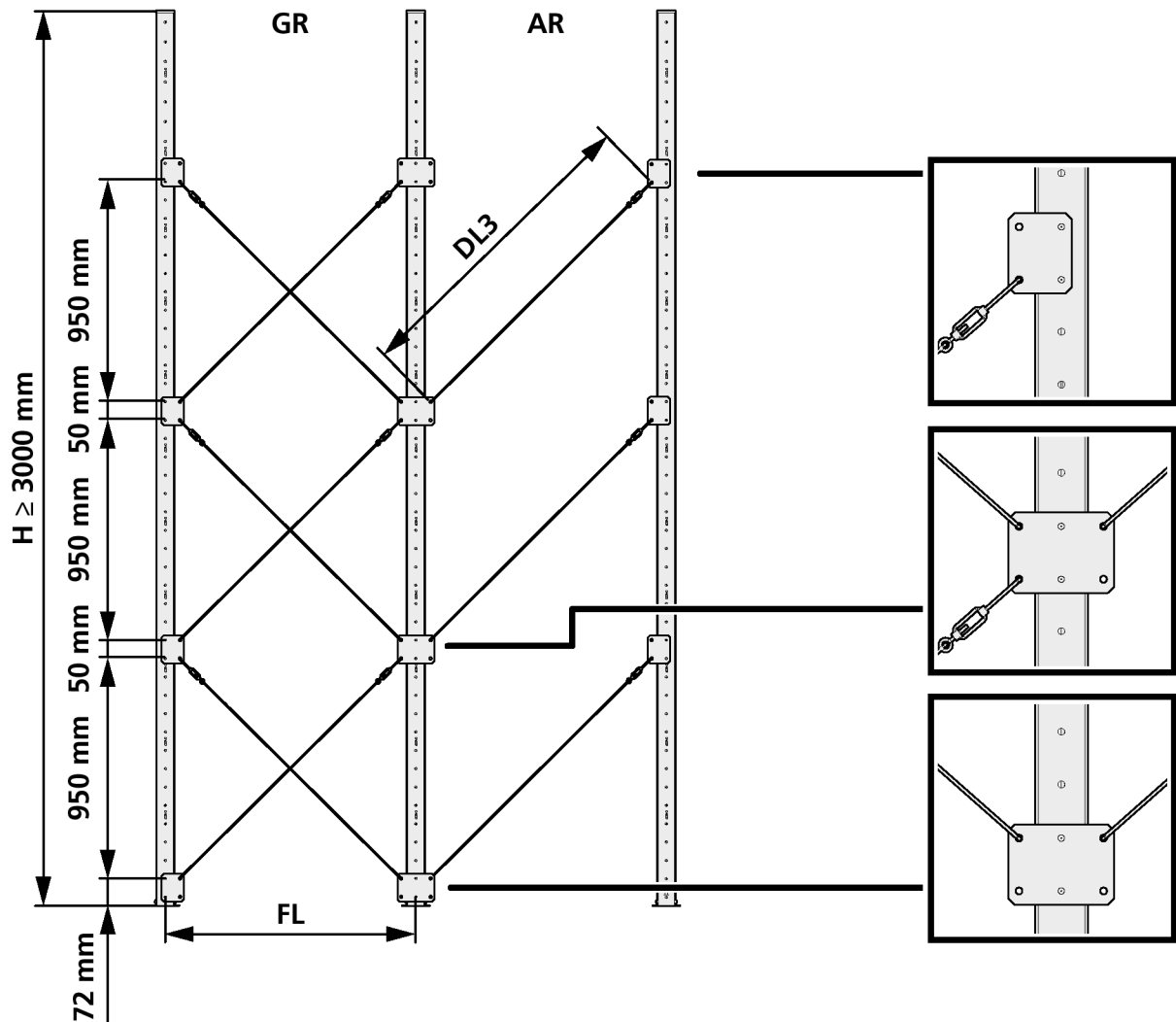
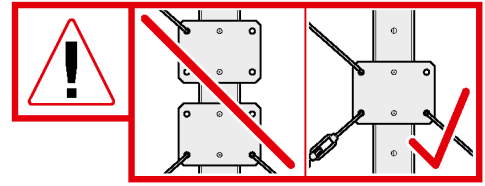


M



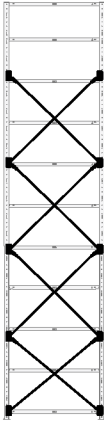
H + M



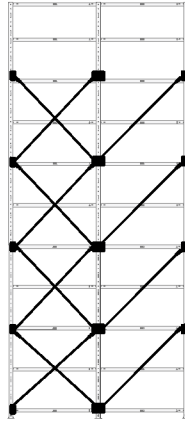


FL	DL3	DL2
1000 mm	1327 mm	1176 mm
1300 mm	1551 mm	1405 mm
1500 mm	1714 mm	1575 mm
1700 mm	1883 mm	1748 mm

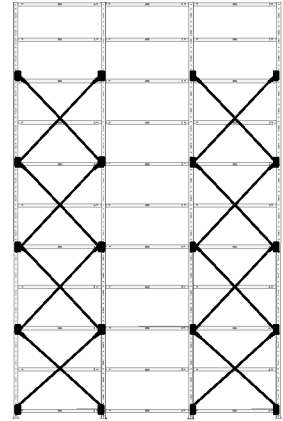
1x



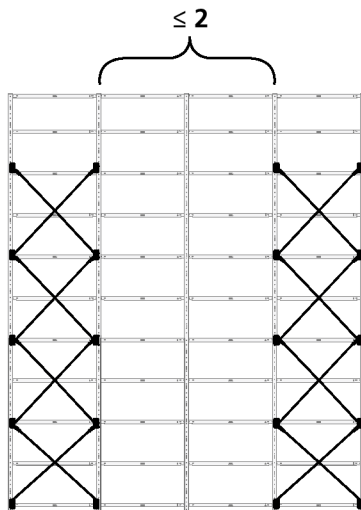
2x



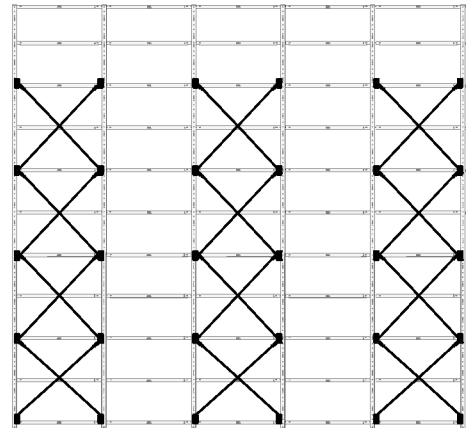
3x



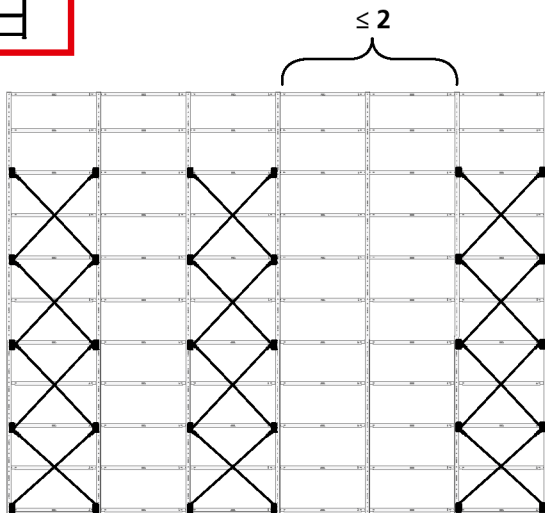
4x



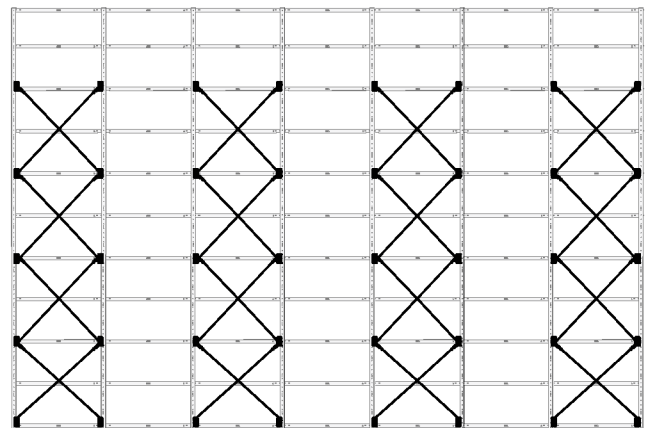
5x



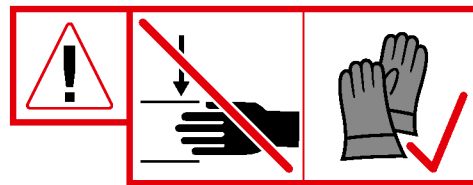
6x



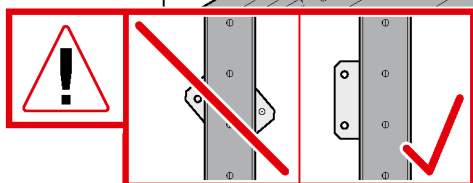
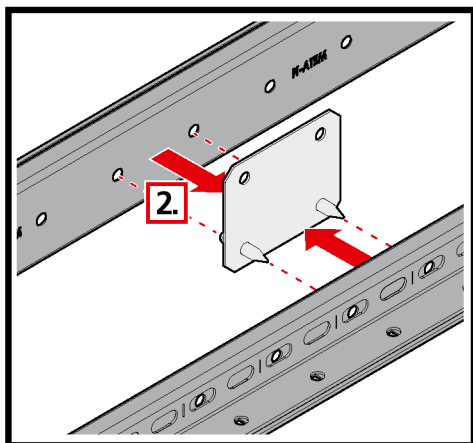
7x



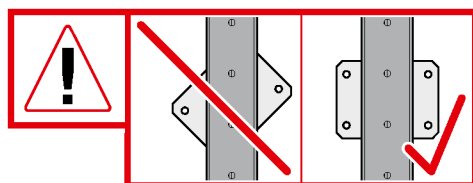
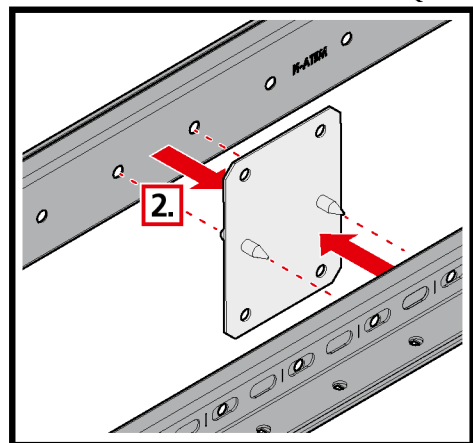
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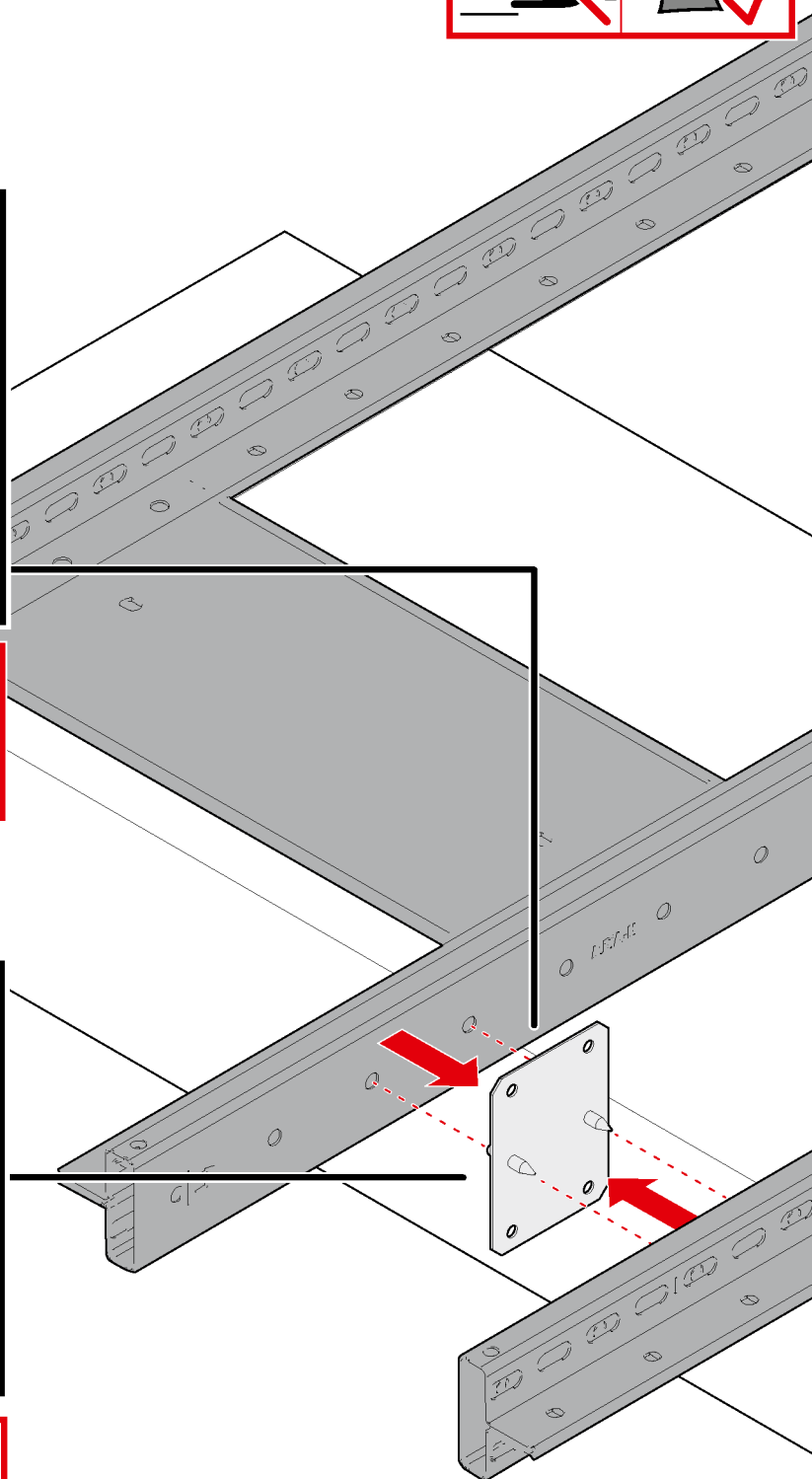
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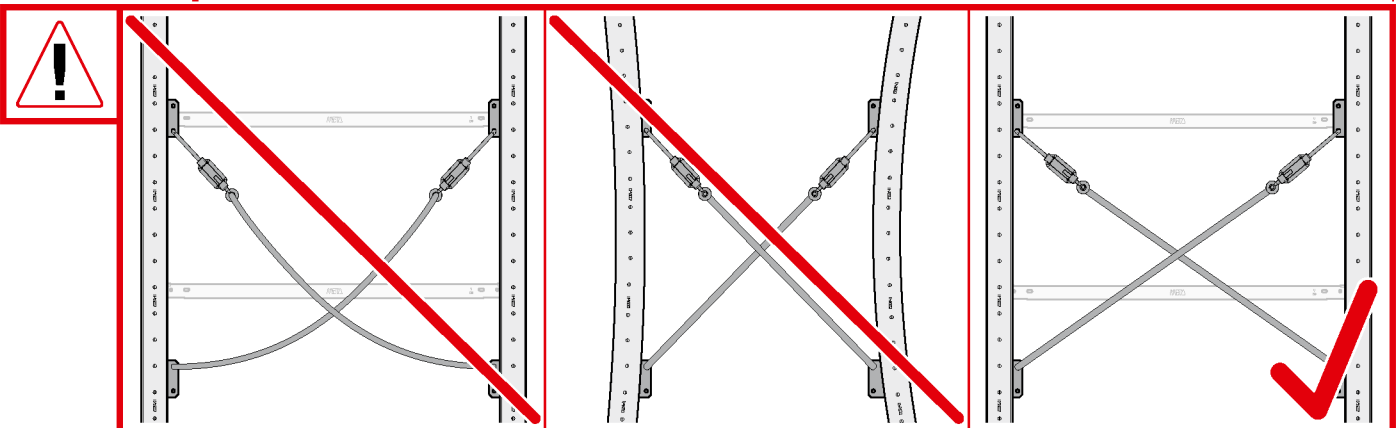
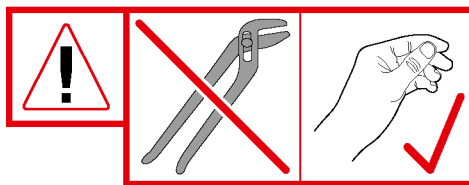
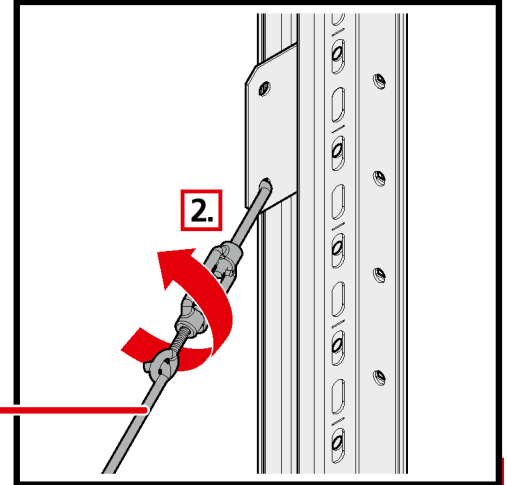
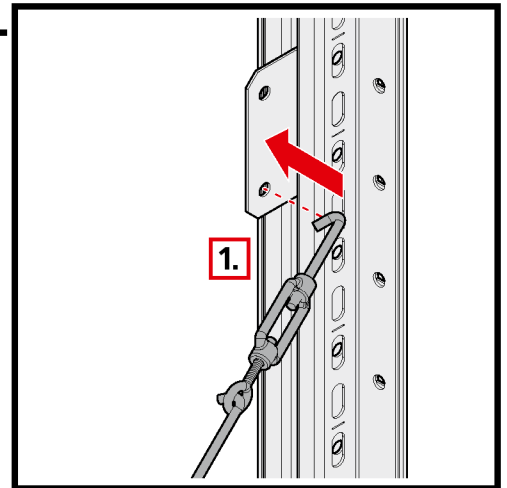
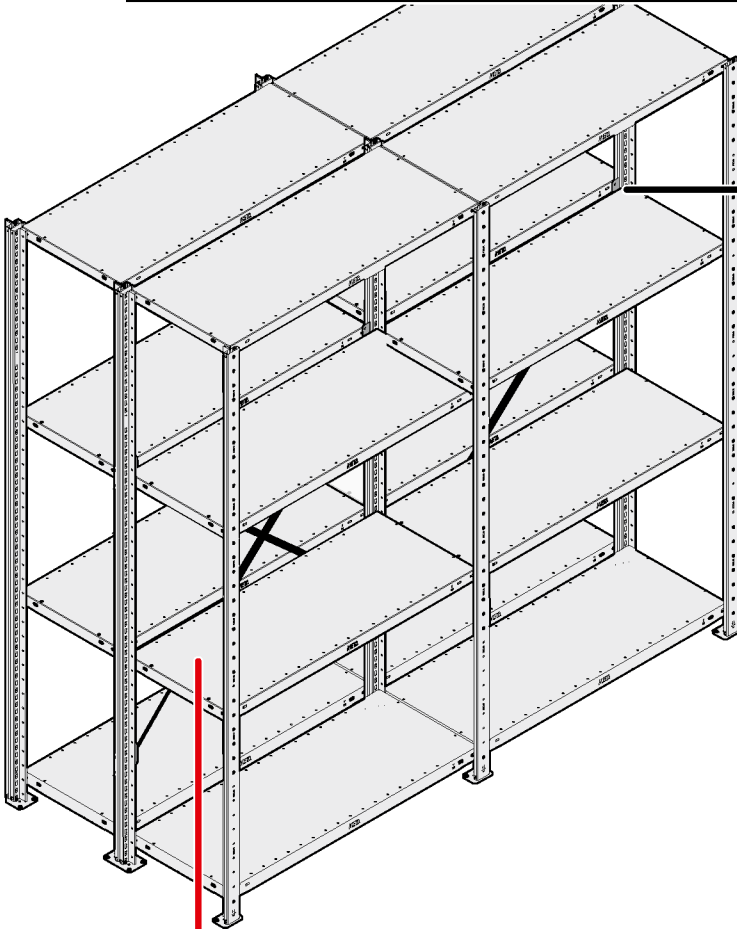
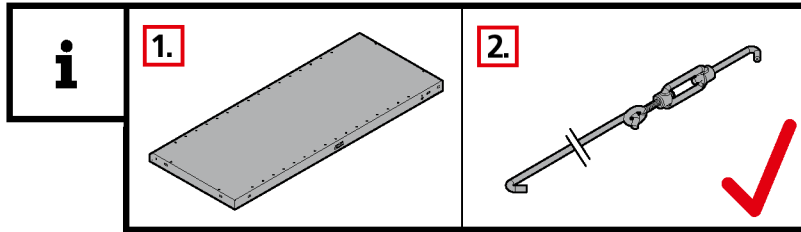


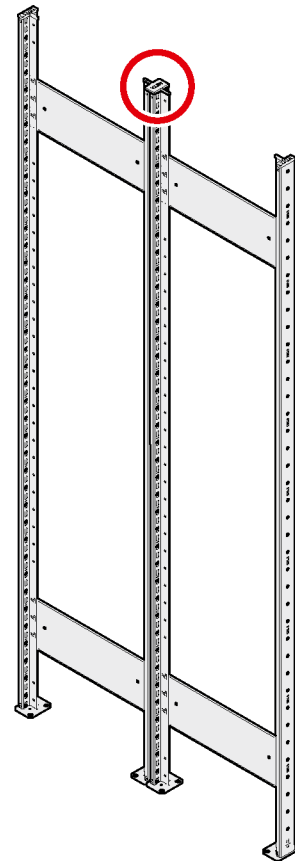
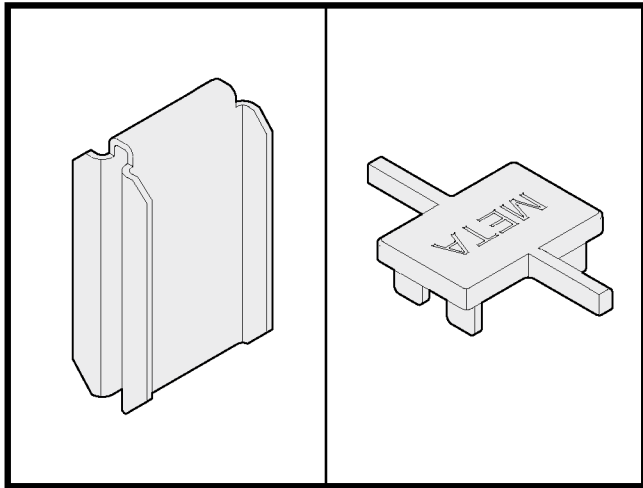
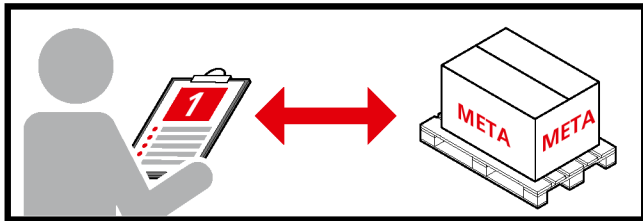
II



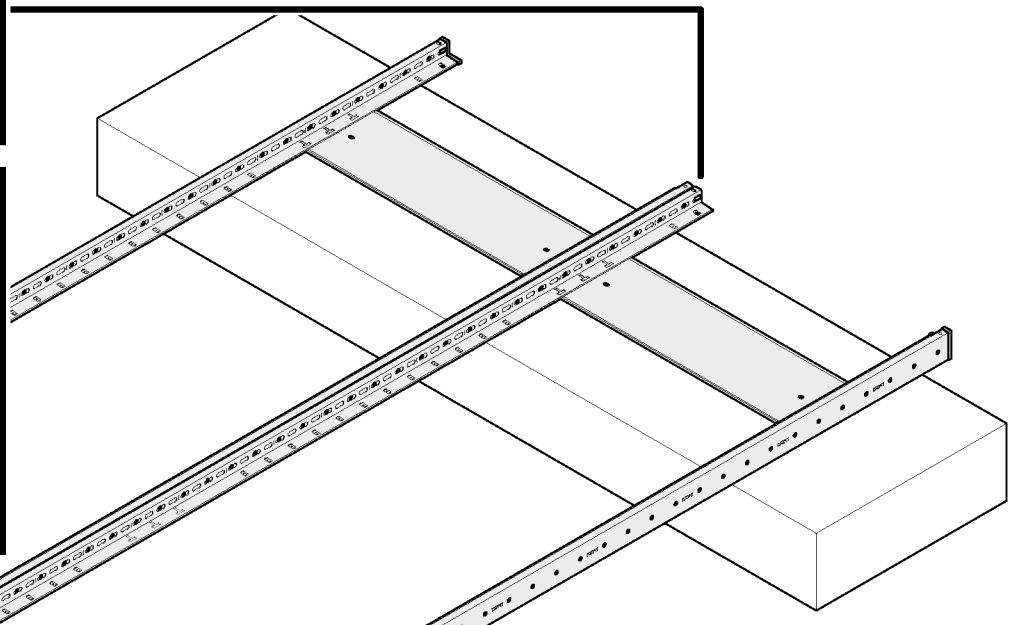
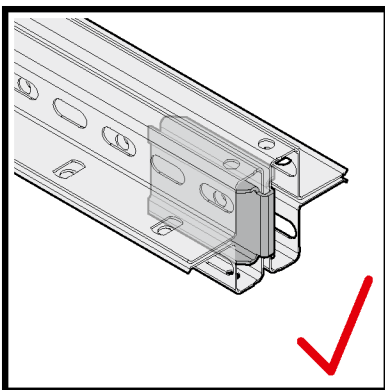
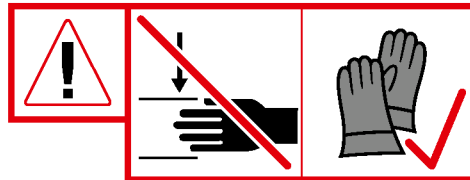
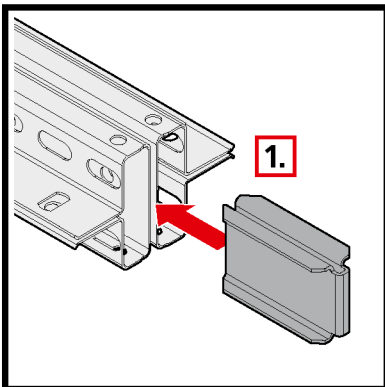
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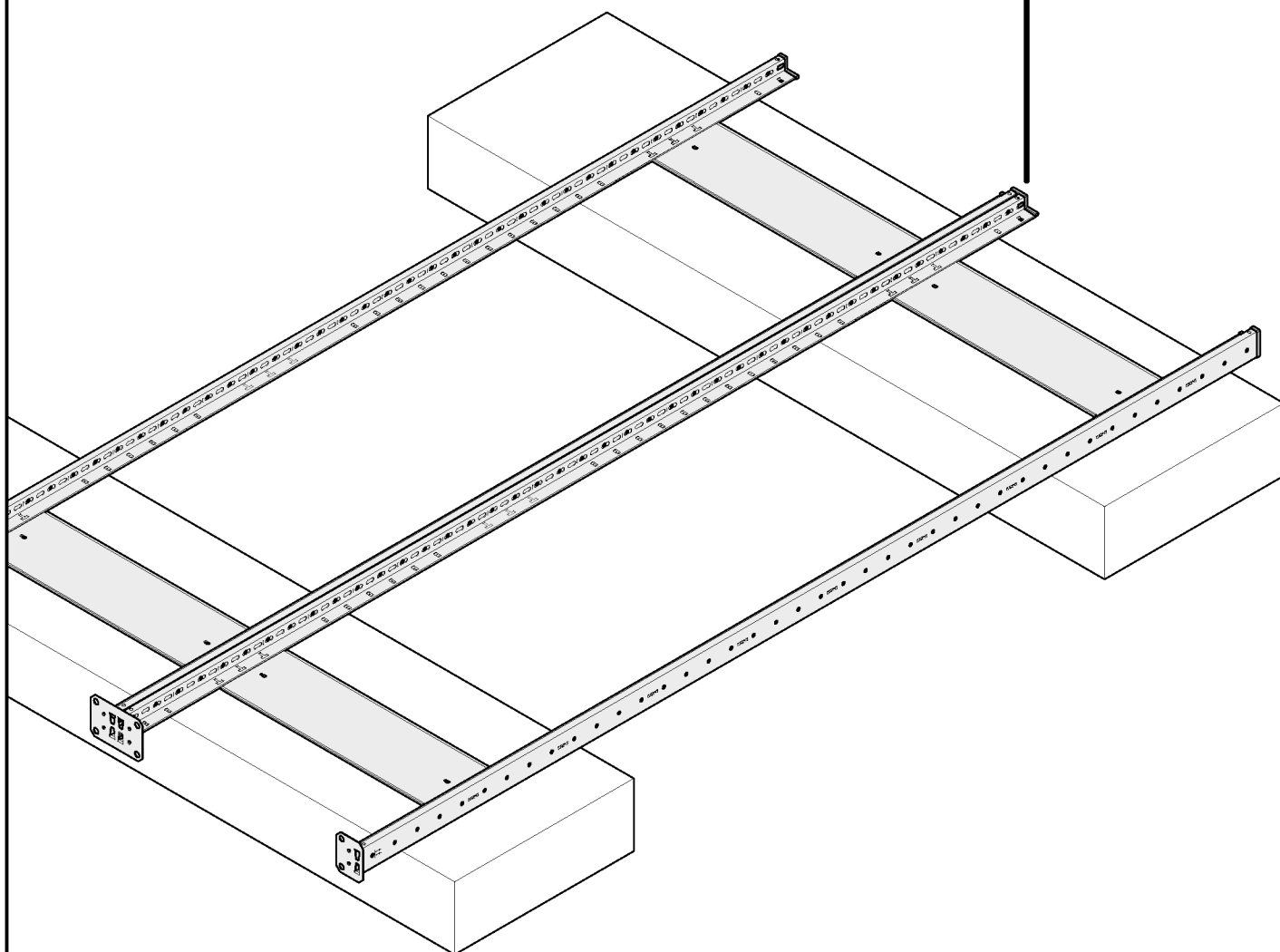
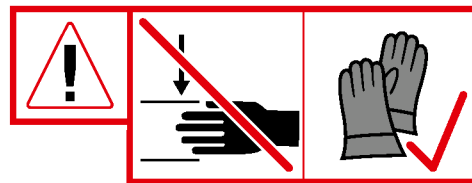
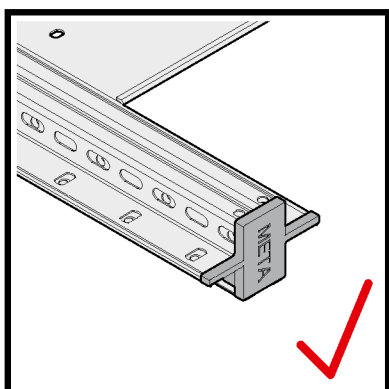
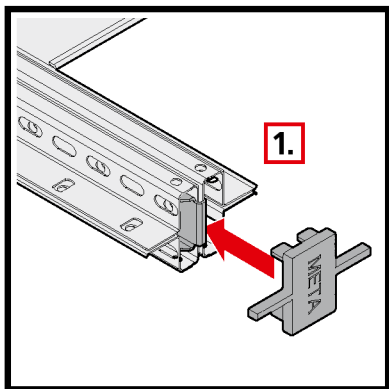


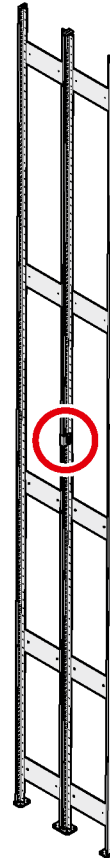
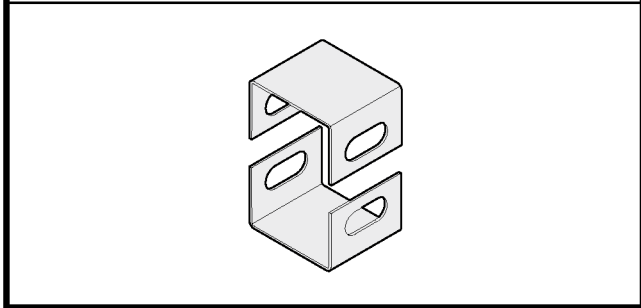
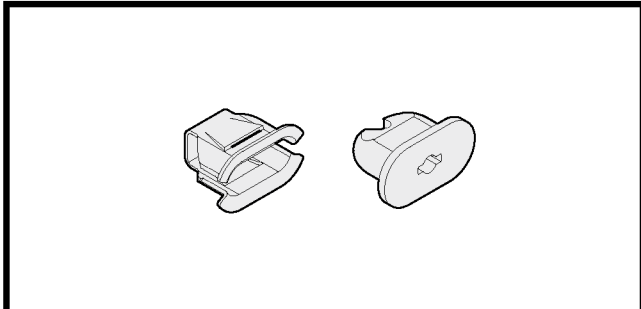
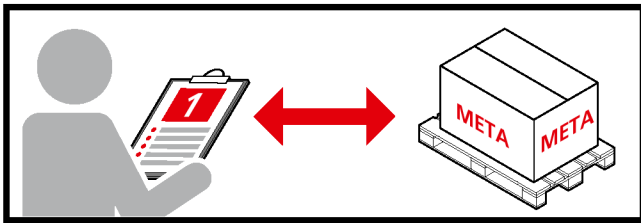
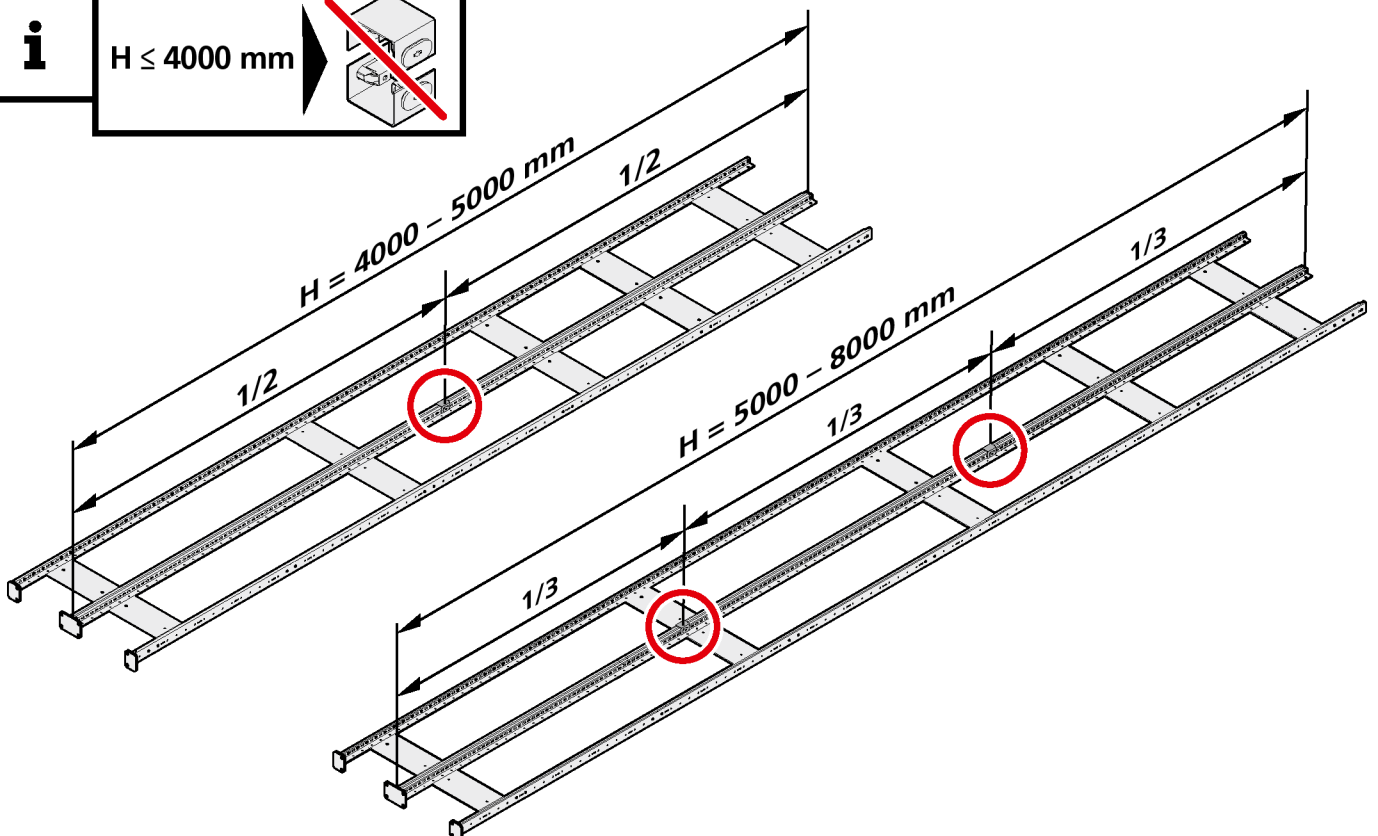
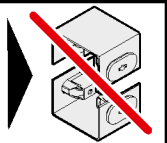


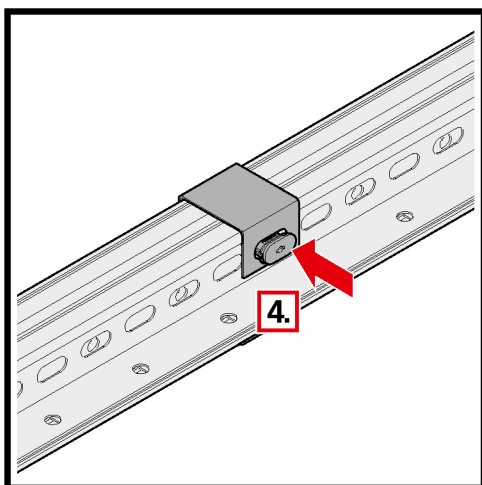
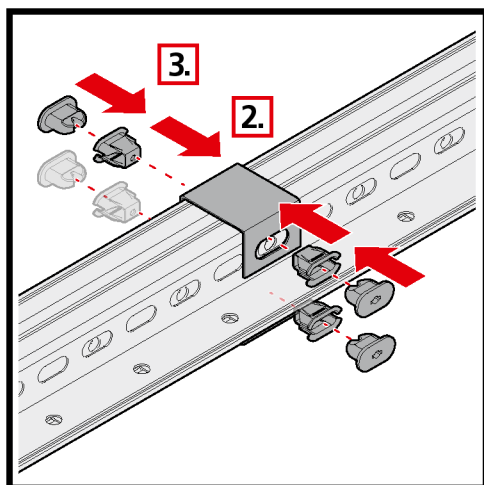
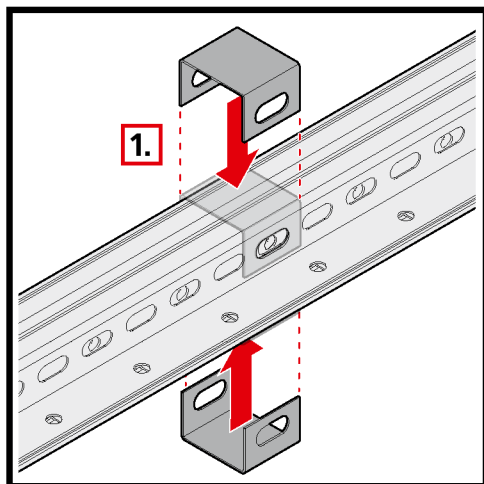
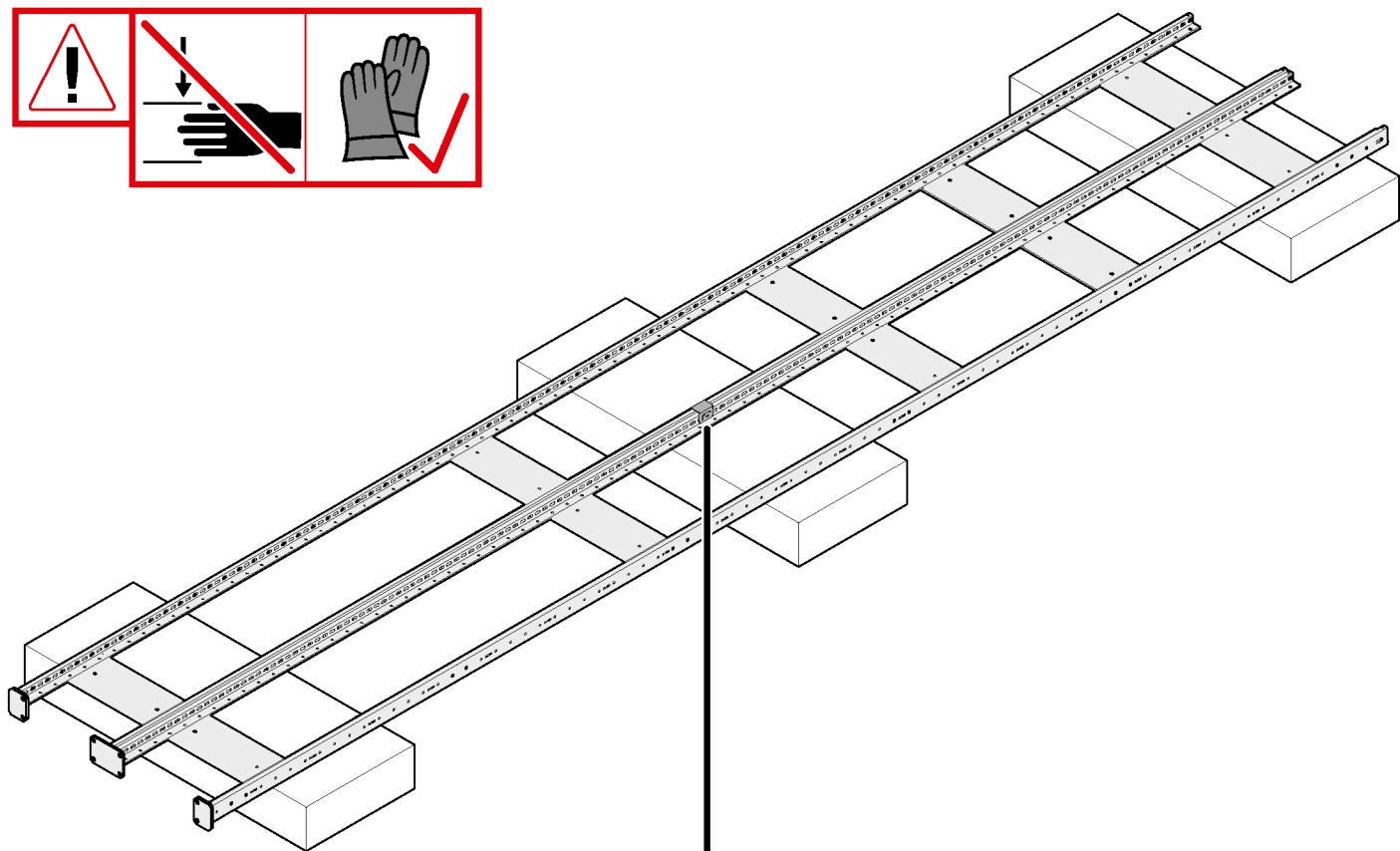
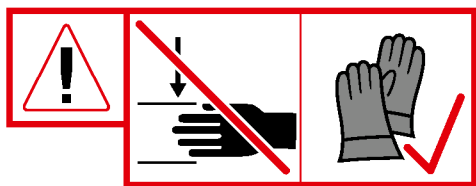


01



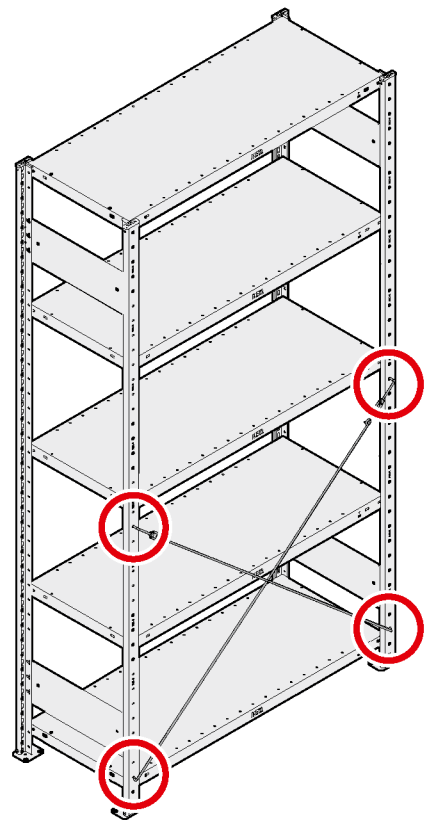
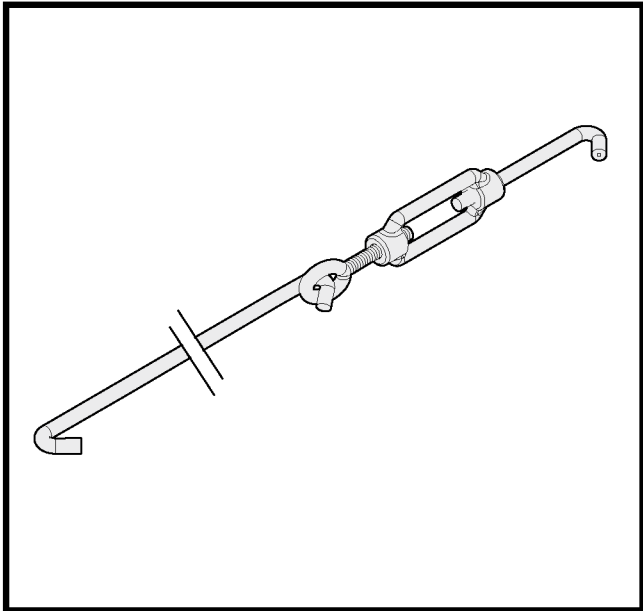
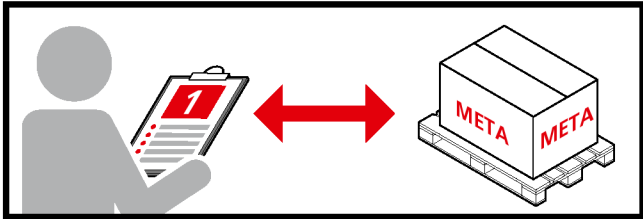


J $H \geq 4000$ **i****i** $H \leq 4000 \text{ mm}$ 



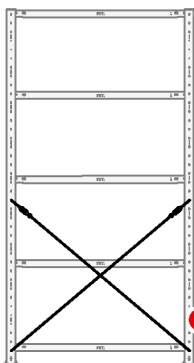
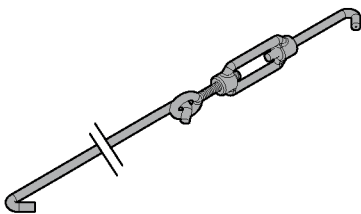
K

H < 3000

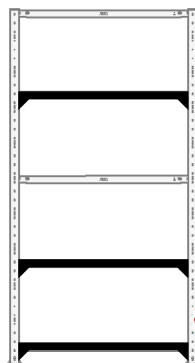
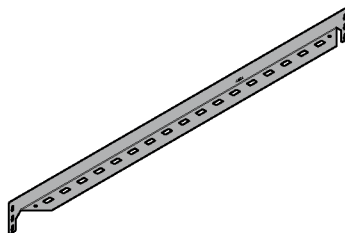


i

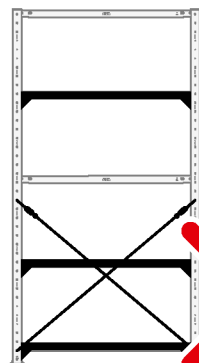
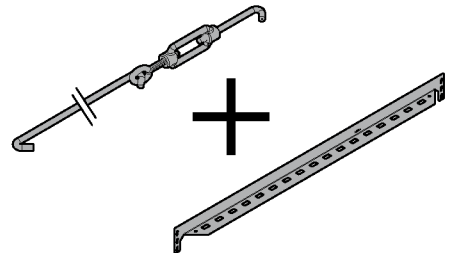
K

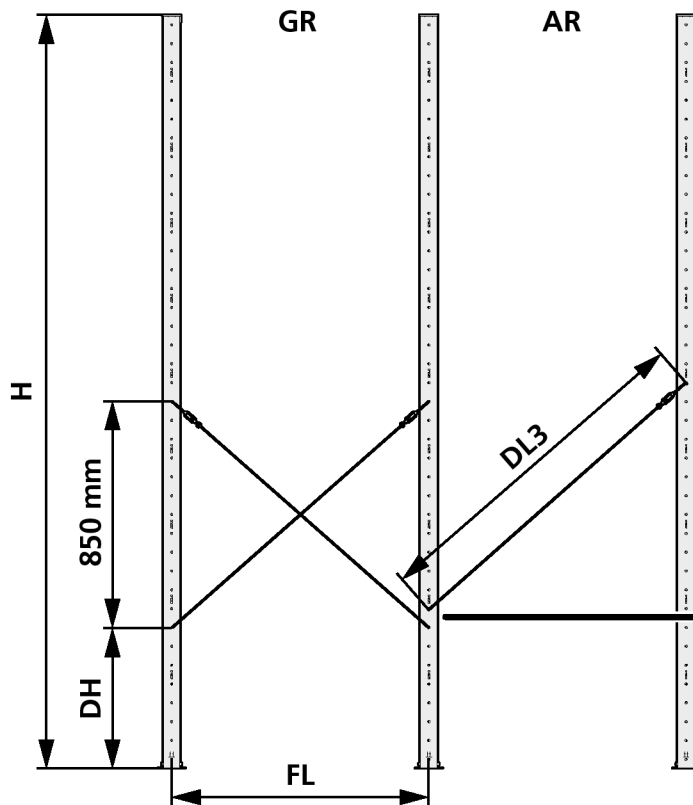


M

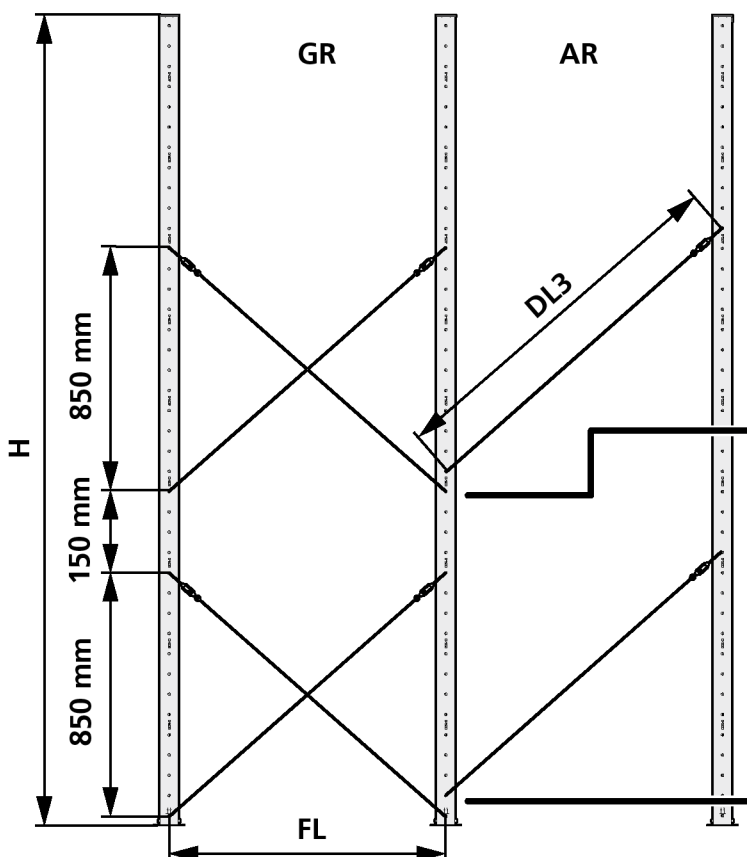
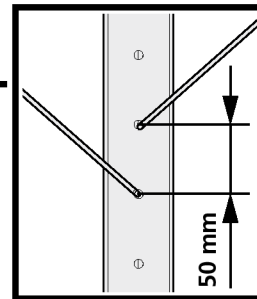


K + M

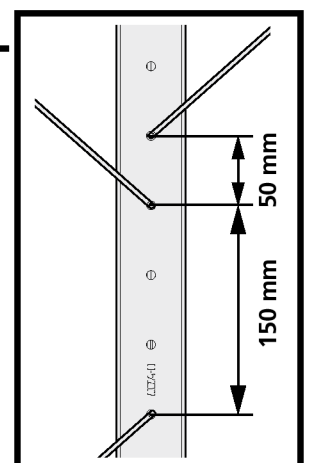
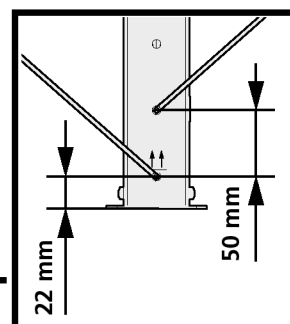




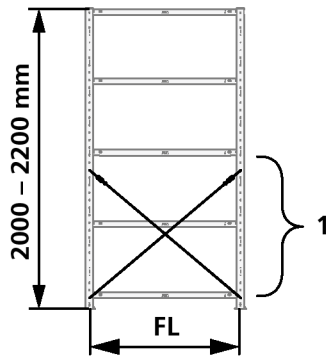
	2000 x 1000 / 1300 / 1500 / 1700 mm	2200 x 1000 / 1300 / 1500 / 1700 mm
H	1994 mm	2194 mm
DH	322 mm	472 mm



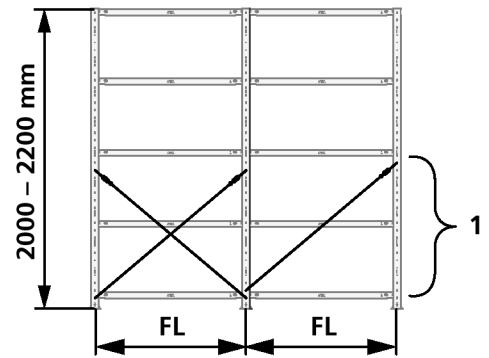
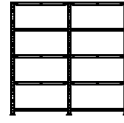
	2500 x 1000 / 1300 / 1500 / 1700 mm	3000 x 1000 / 1300 / 1500 / 1700 mm
H	2494 mm	2994 mm



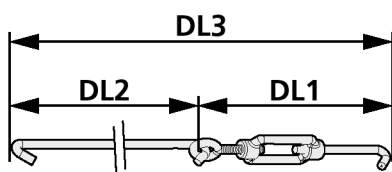
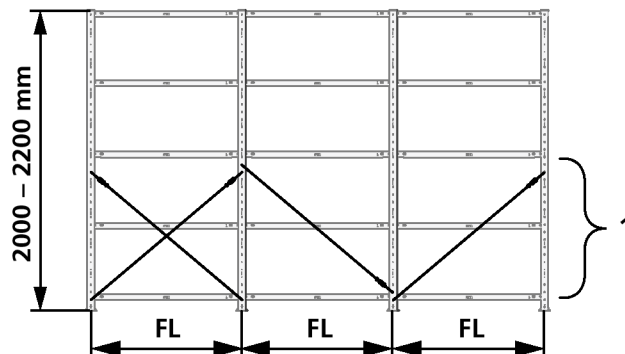
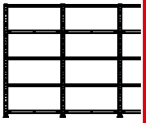
1x



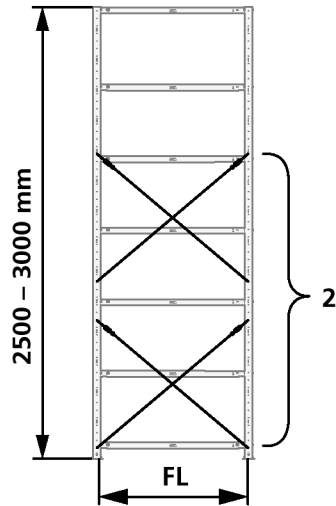
2x



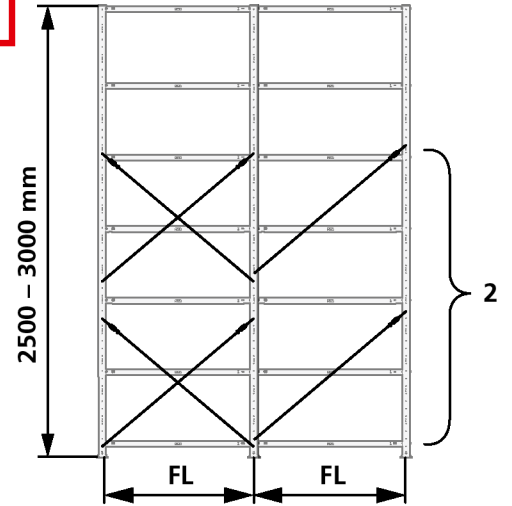
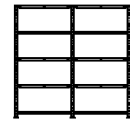
> 2x



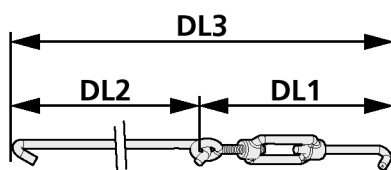
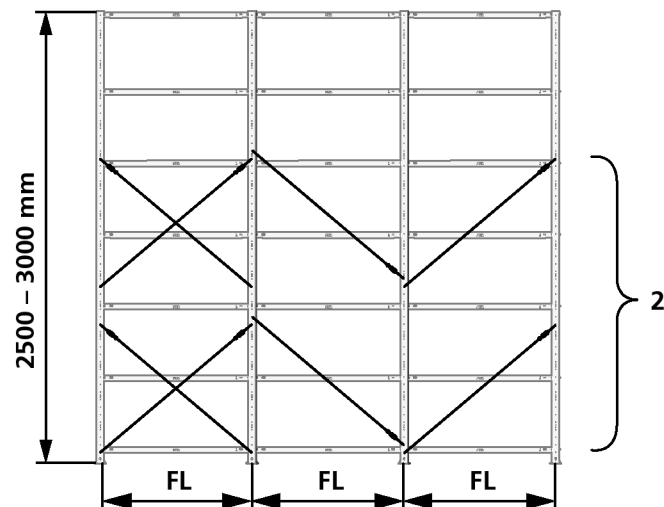
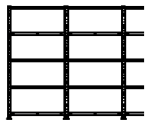
FL	DL3	DL2
1000 mm	1317 mm	1176 mm
1300 mm	1558 mm	1405 mm
1500 mm	1729 mm	1575 mm
1700 mm	1906 mm	1748 mm



2x



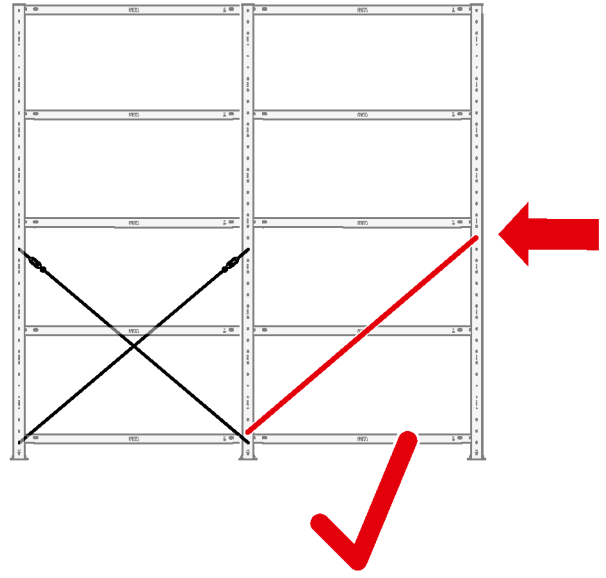
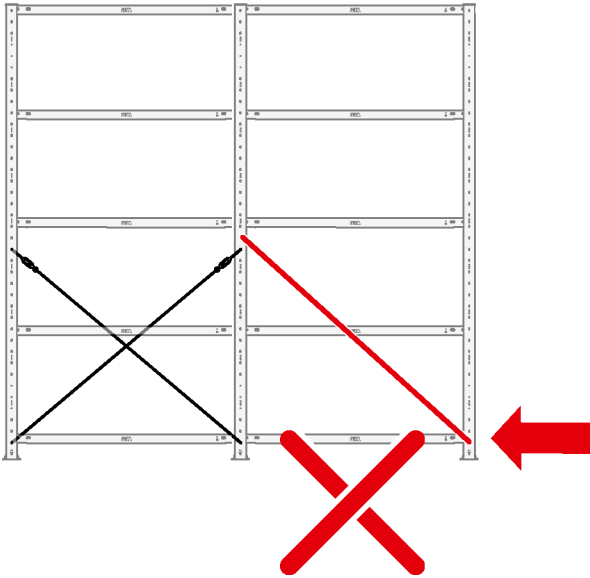
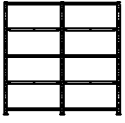
> 2x



FL	DL3	DL2
1000 mm	1317 mm	1176 mm
1300 mm	1558 mm	1405 mm
1500 mm	1729 mm	1575 mm
1700 mm	1906 mm	1748 mm

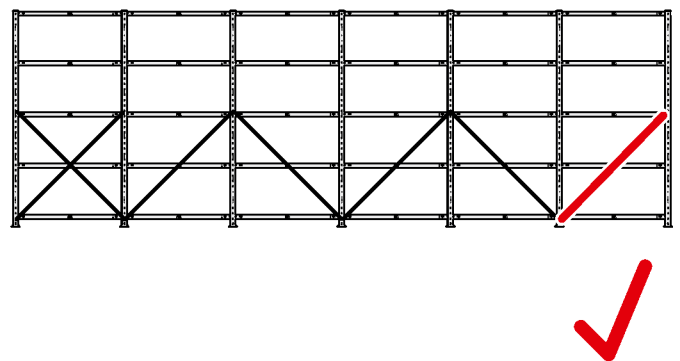
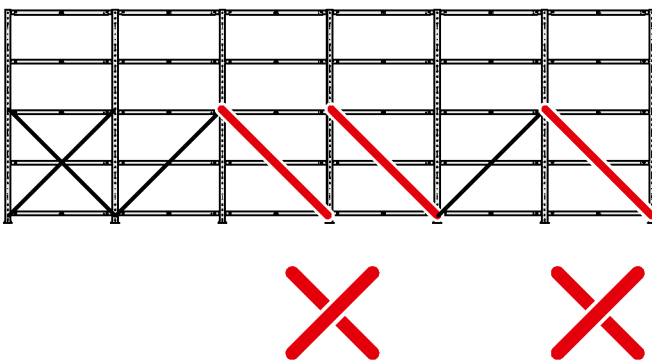
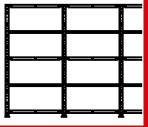
i

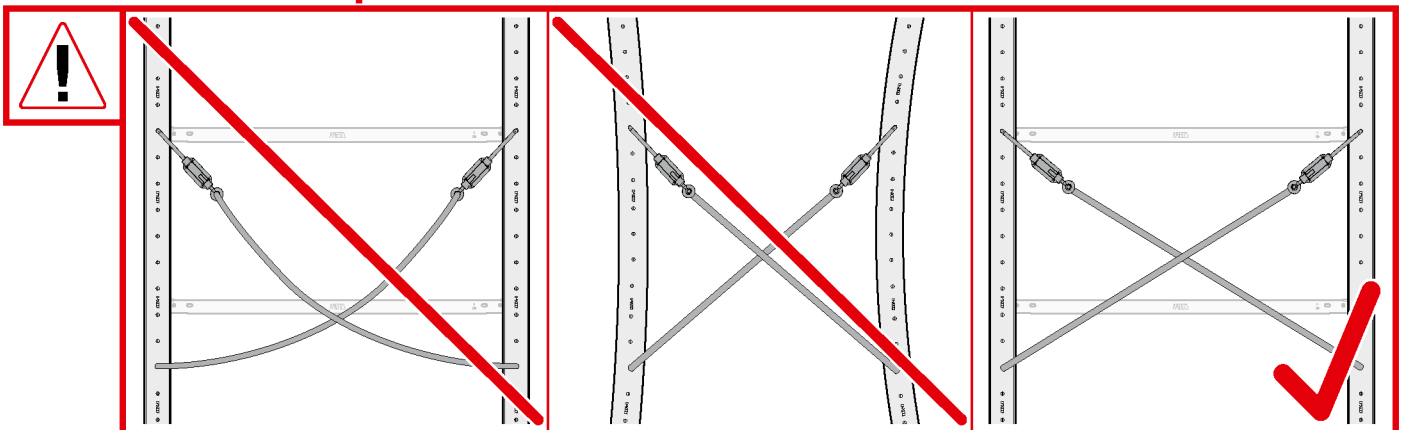
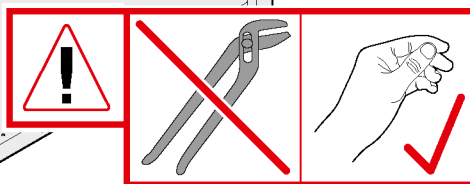
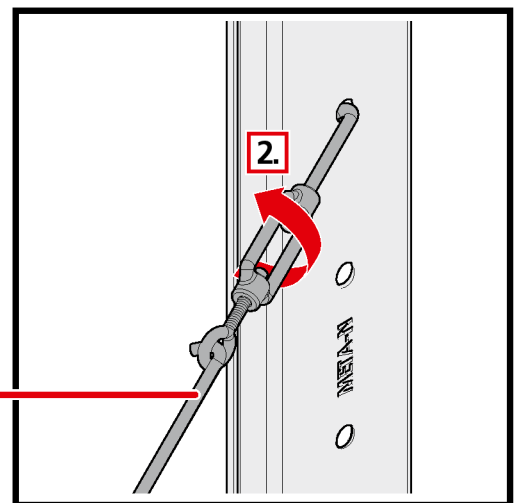
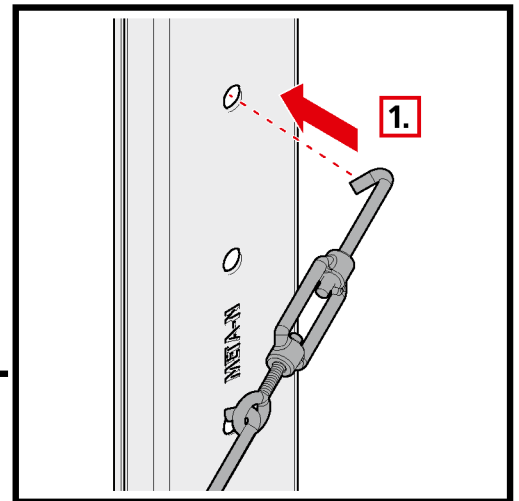
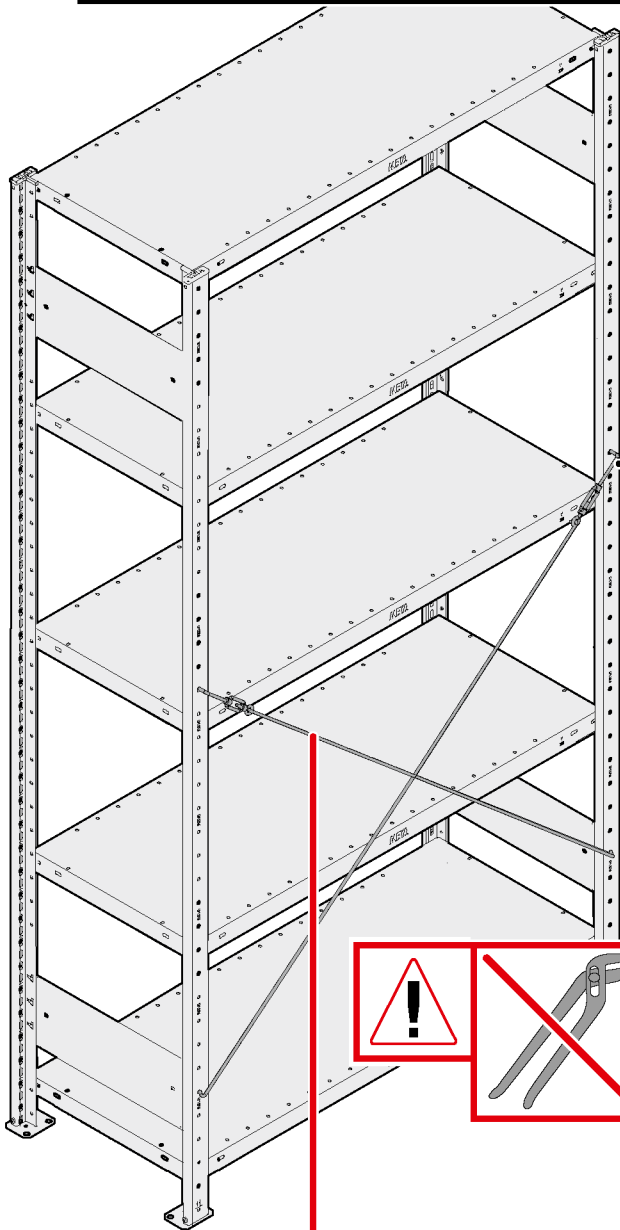
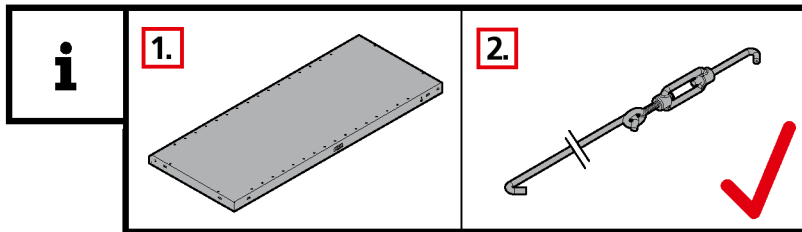
2x



i

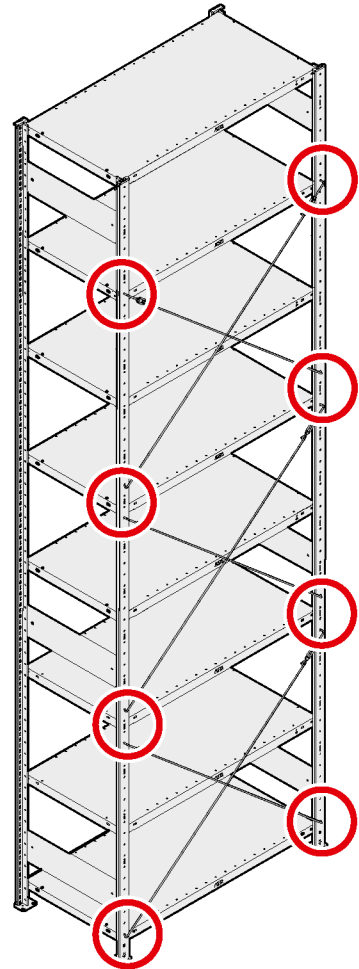
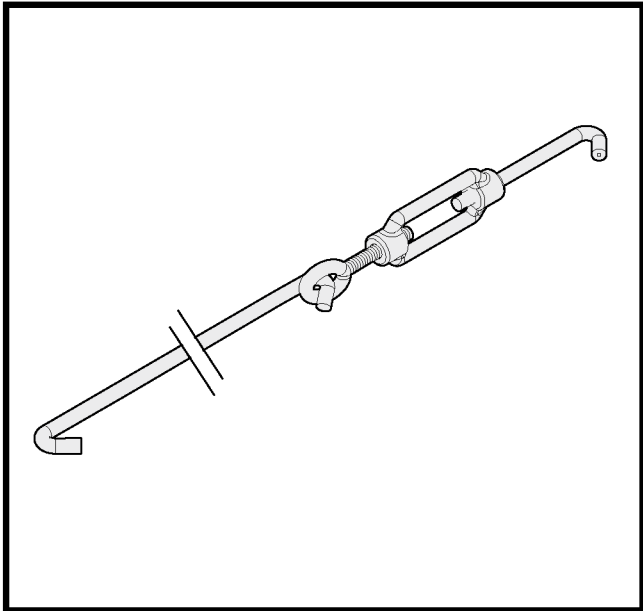
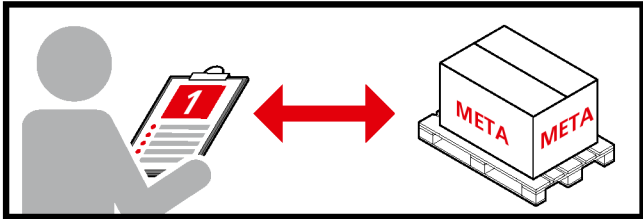
> 2x





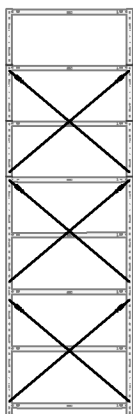
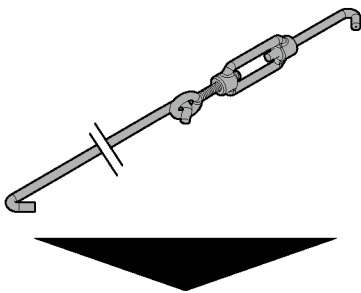
L

H ≥ 3000

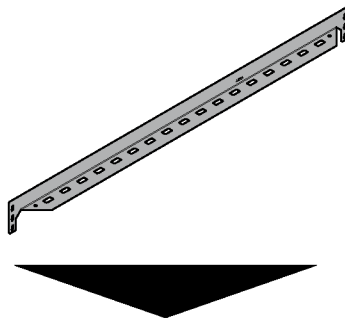


i

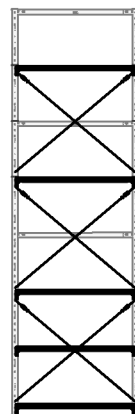
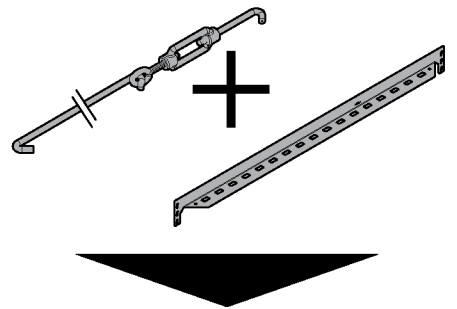
L

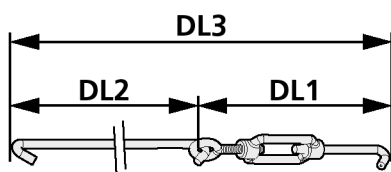
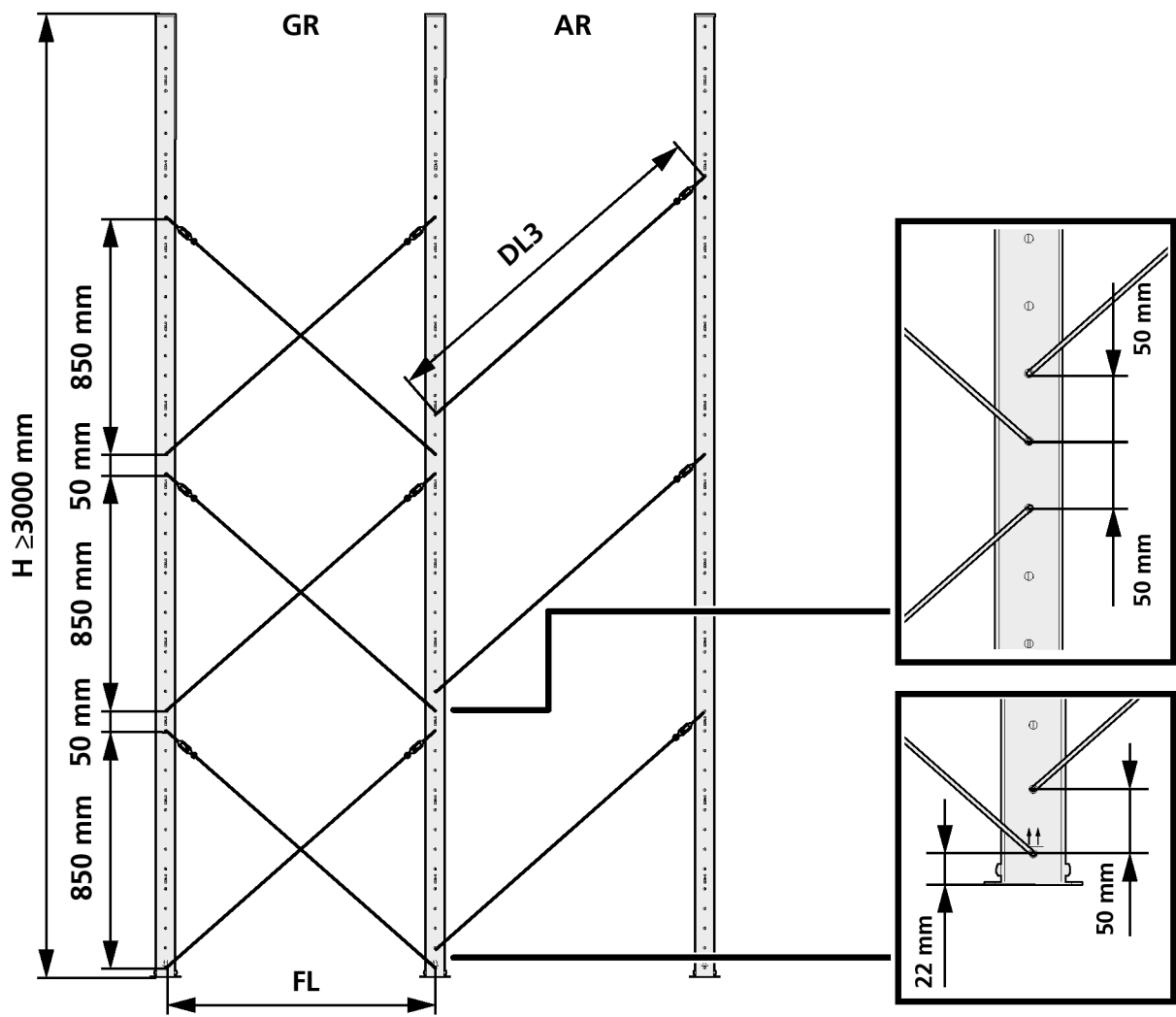


M



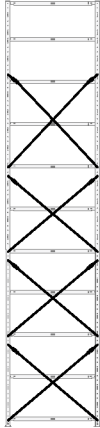
L + M



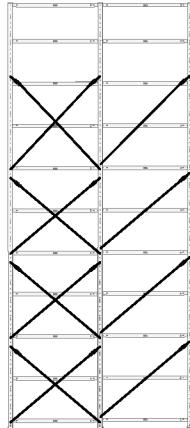


FL	DL3	DL2
1000 mm	1317 mm	1176 mm
1300 mm	1558 mm	1405 mm
1500 mm	1729 mm	1575 mm
1700 mm	1906 mm	1748 mm

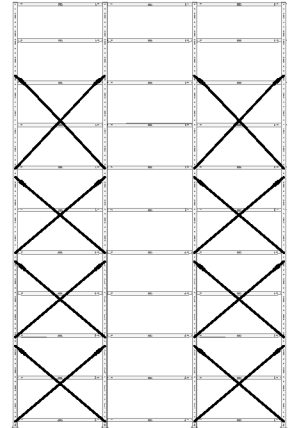
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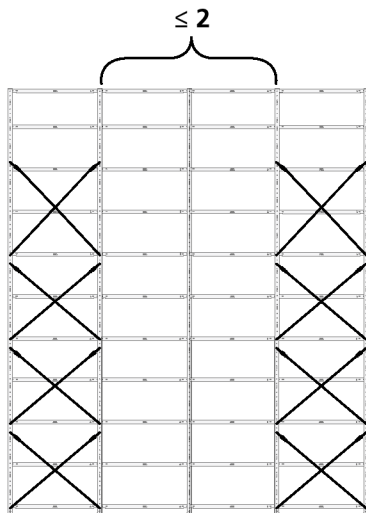
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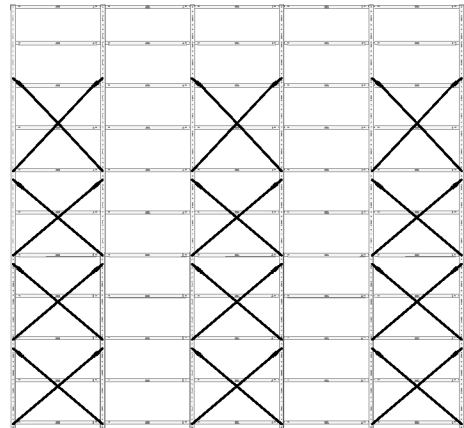
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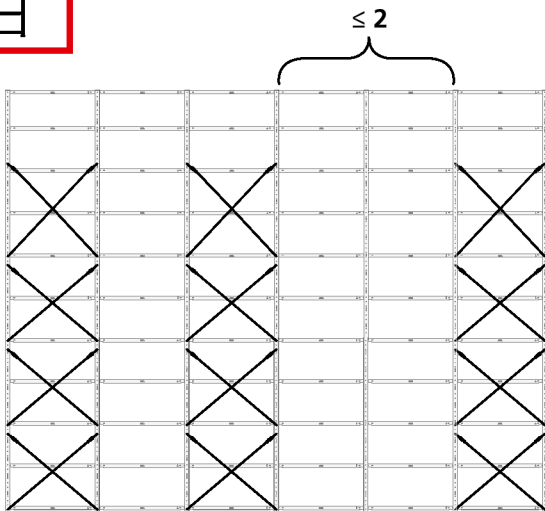
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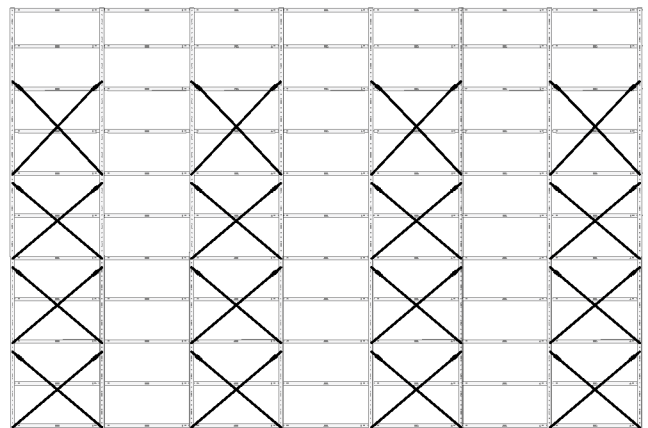
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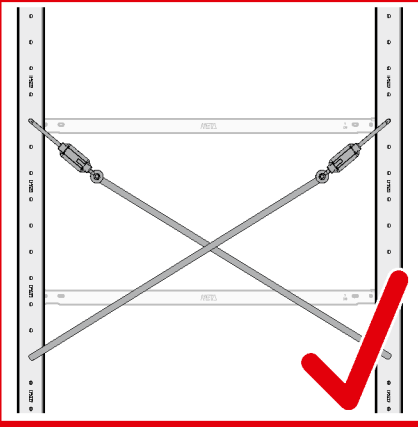
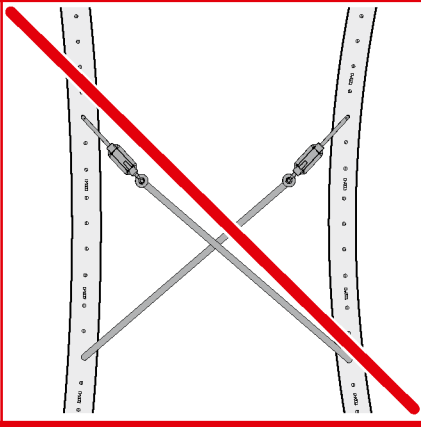
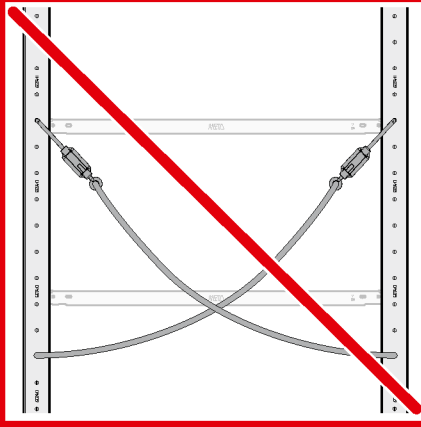
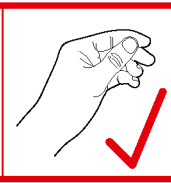
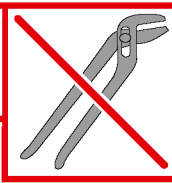
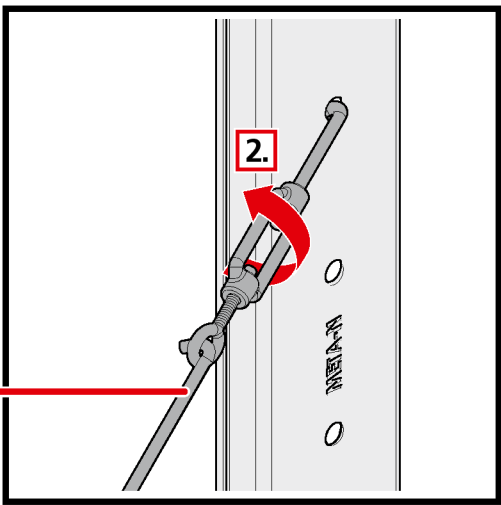
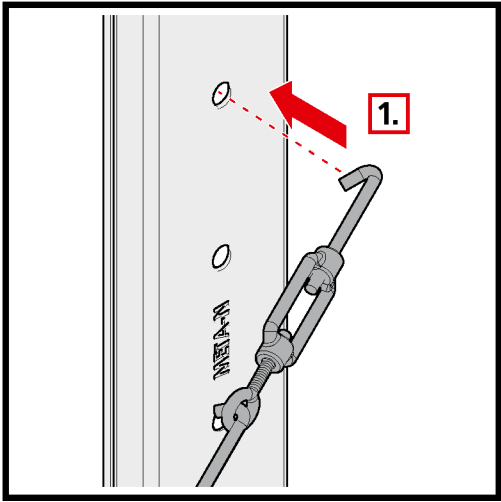
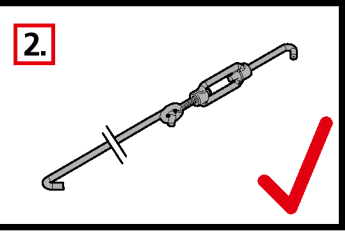
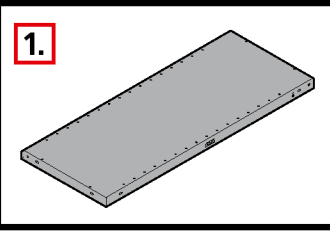
6x



7x



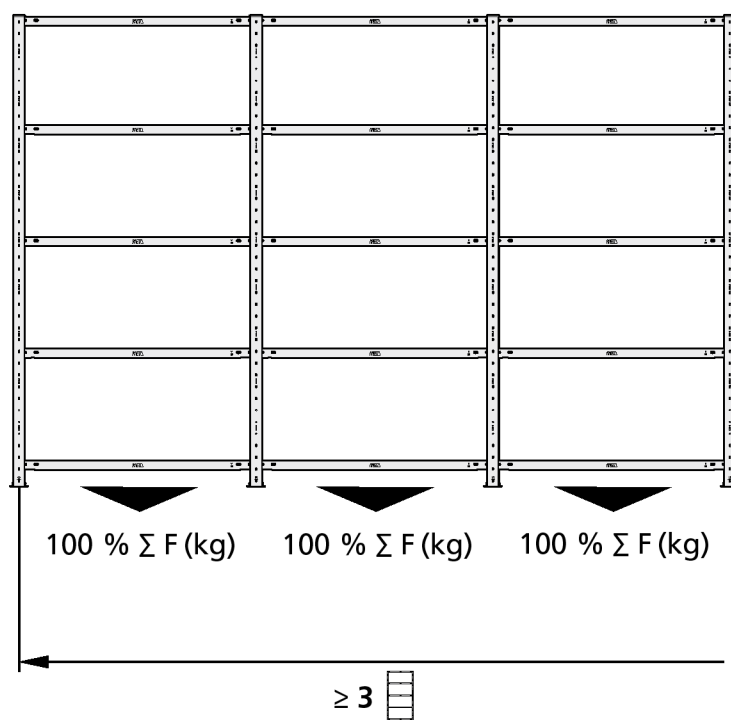
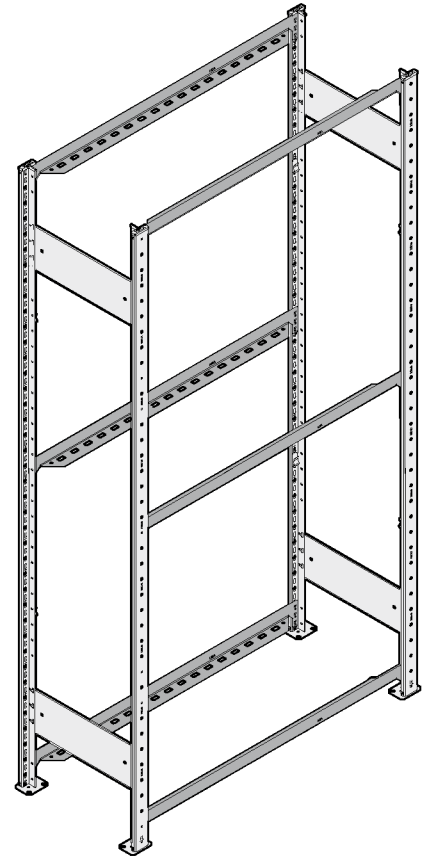
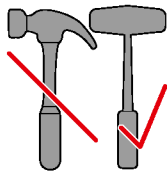
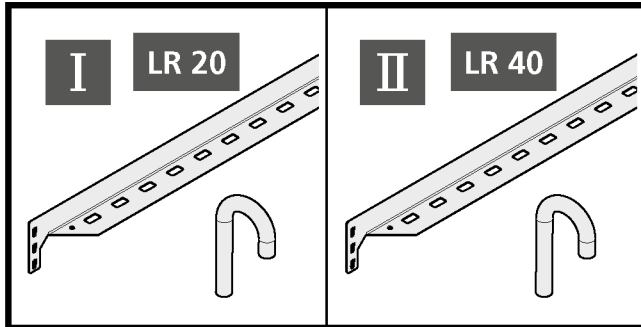
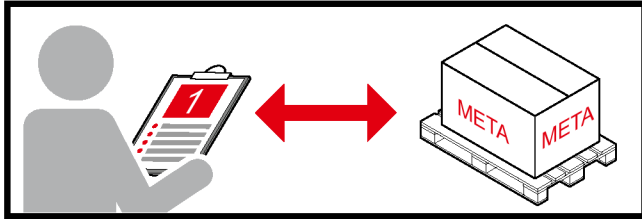
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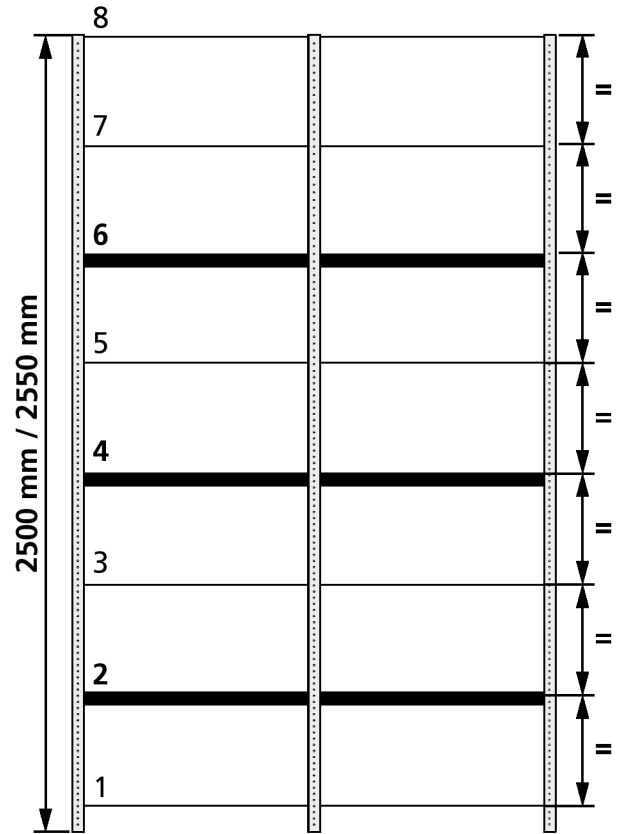
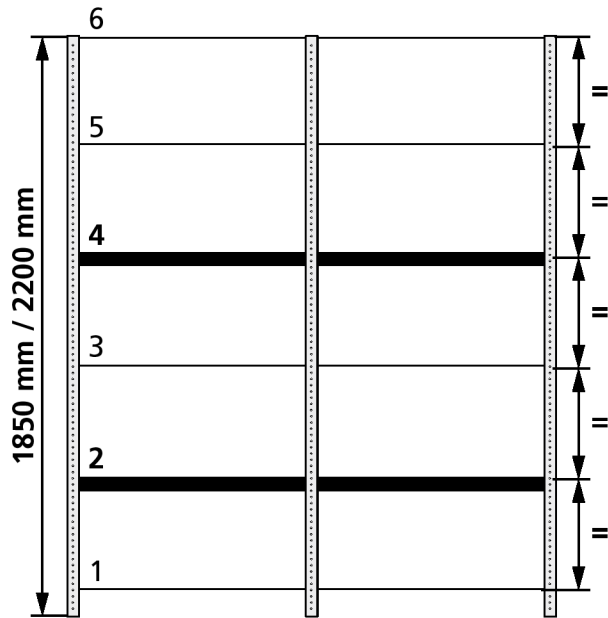
LR 20

LR 40

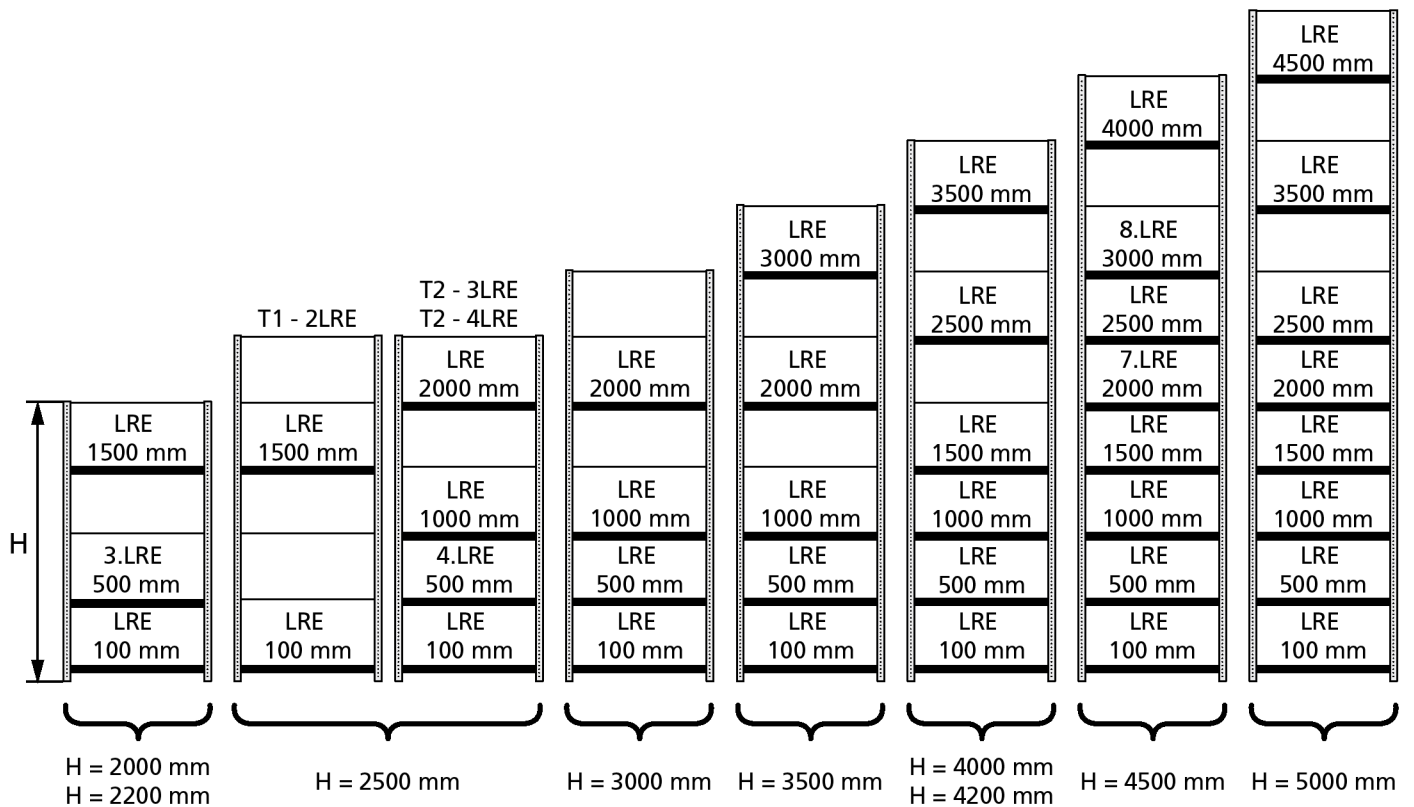




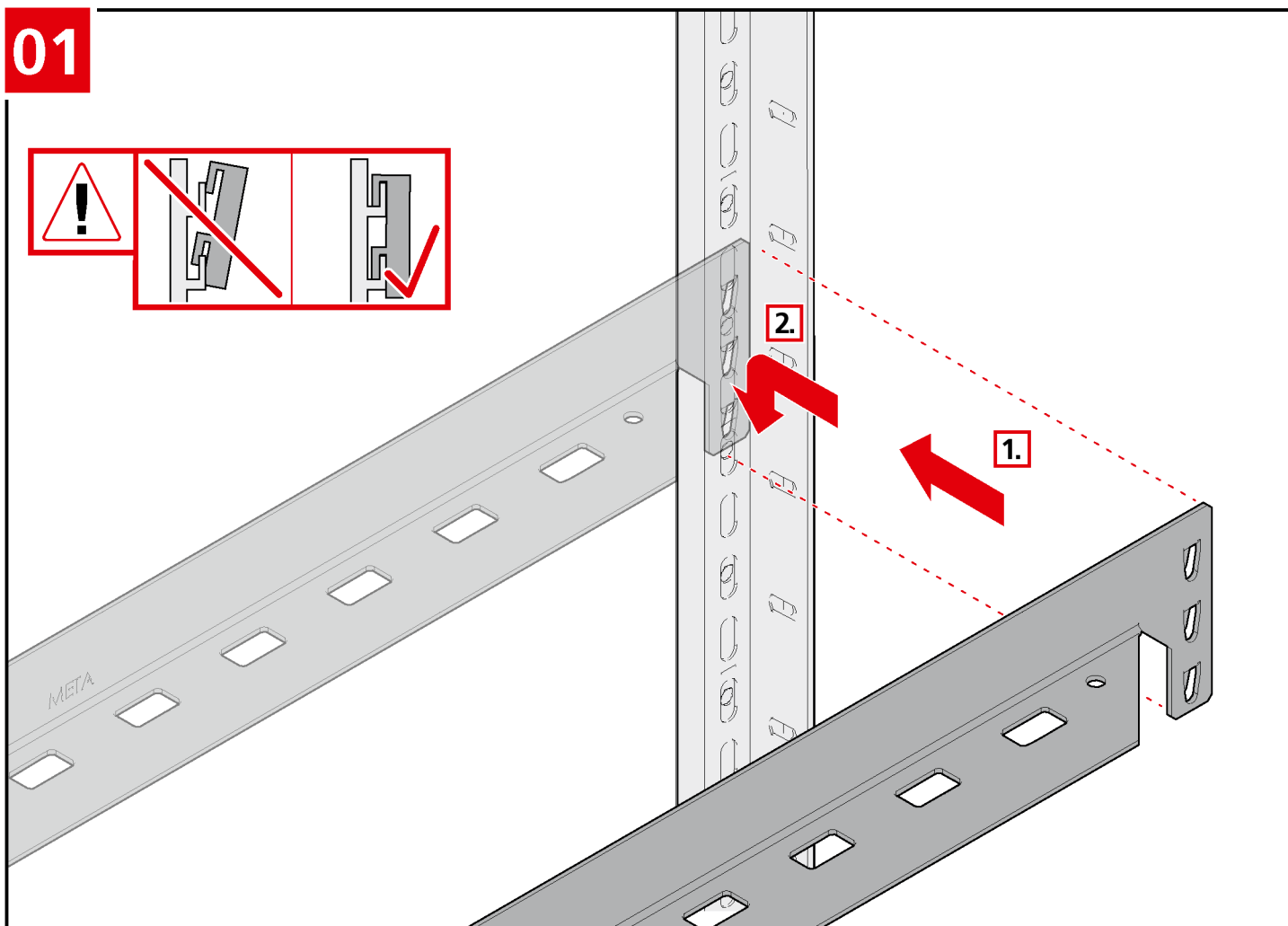
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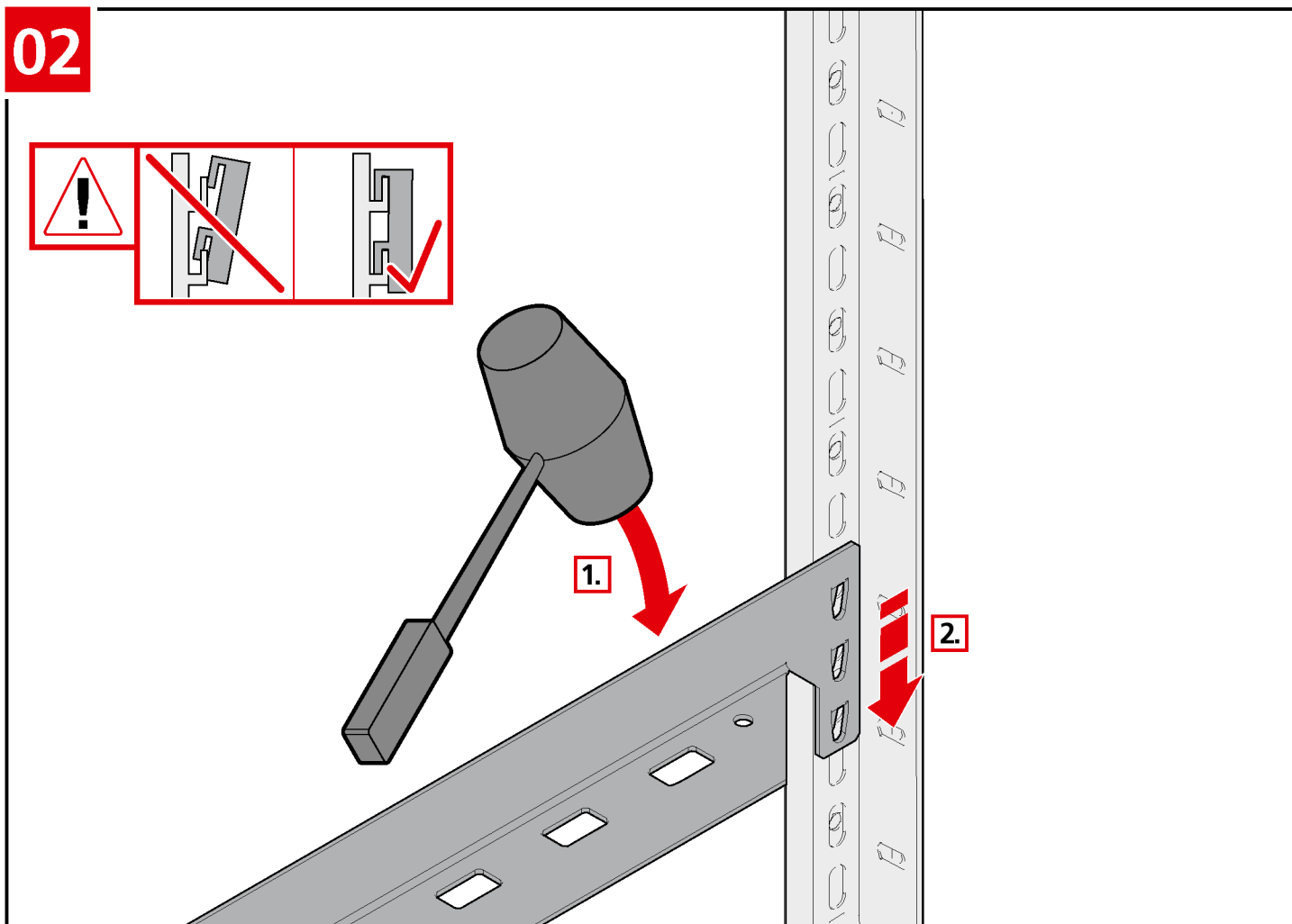
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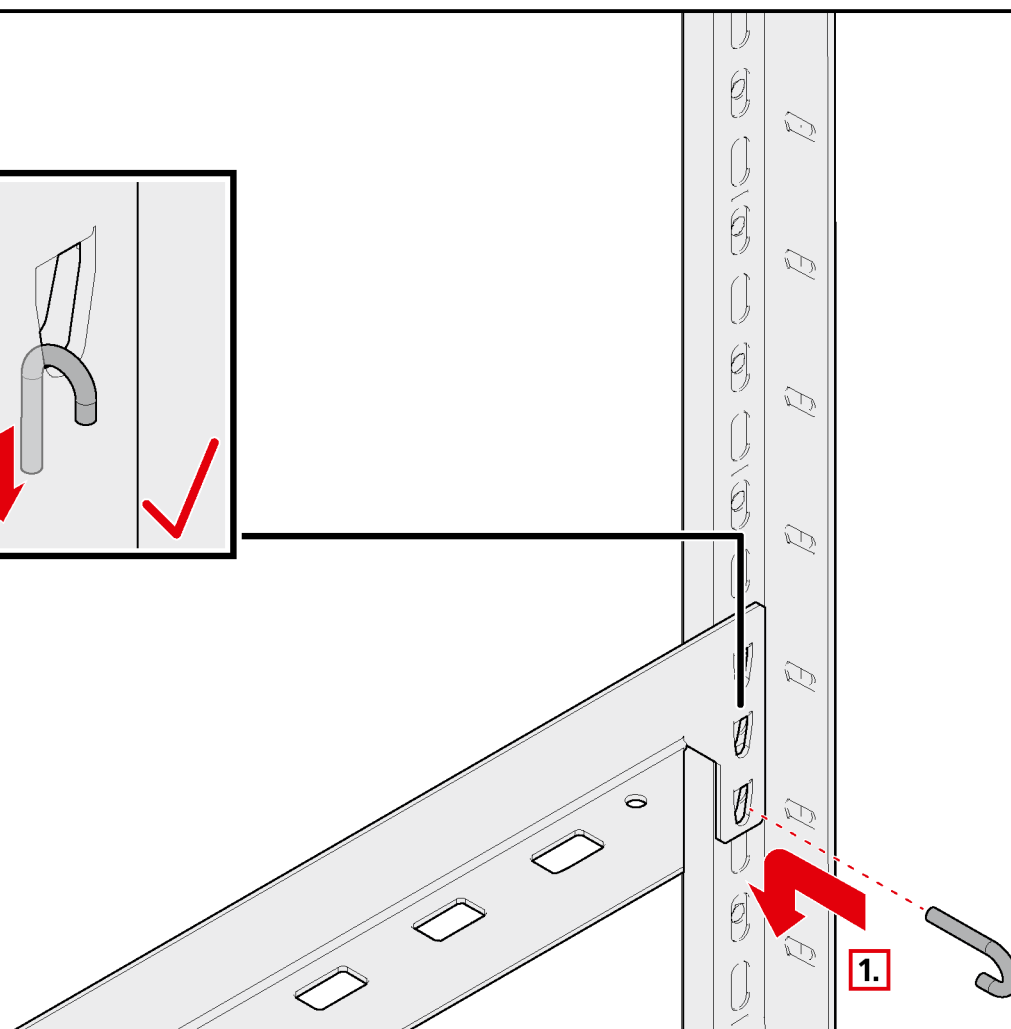
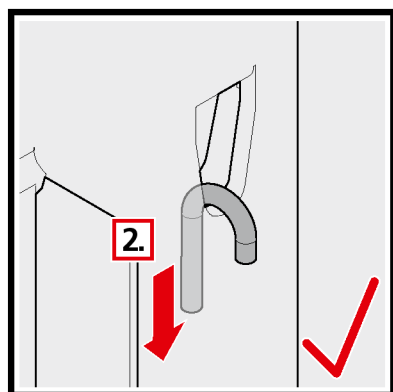
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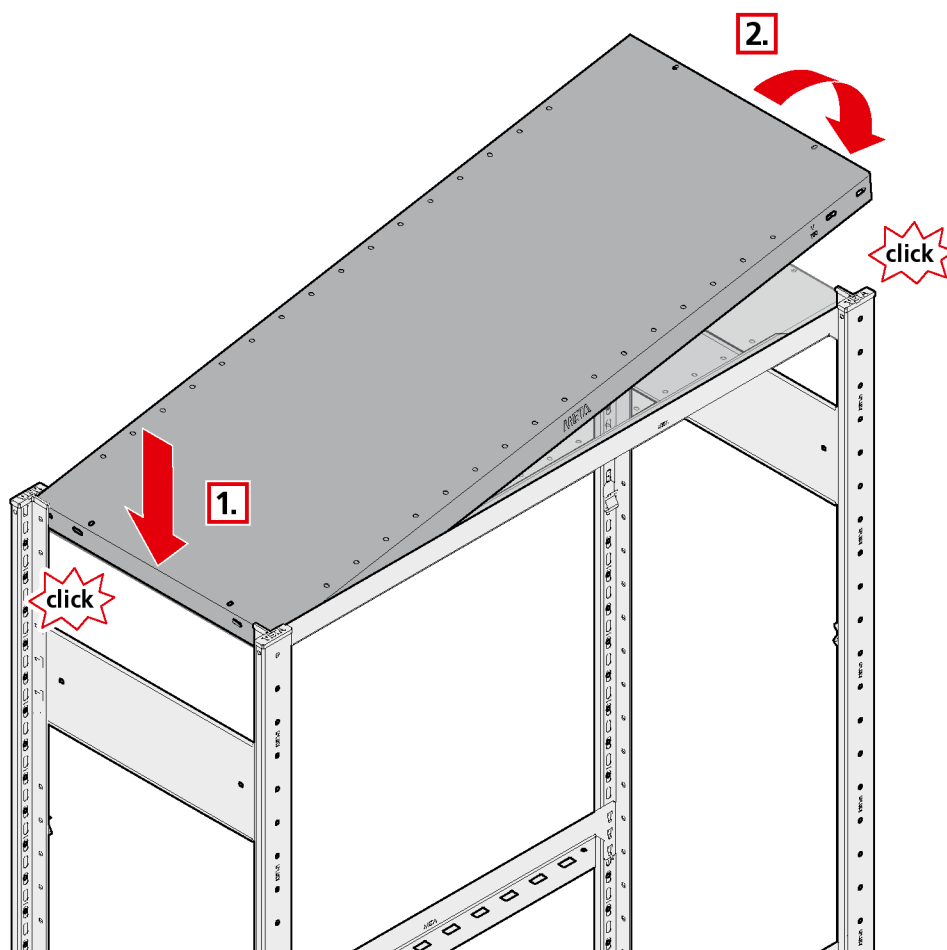
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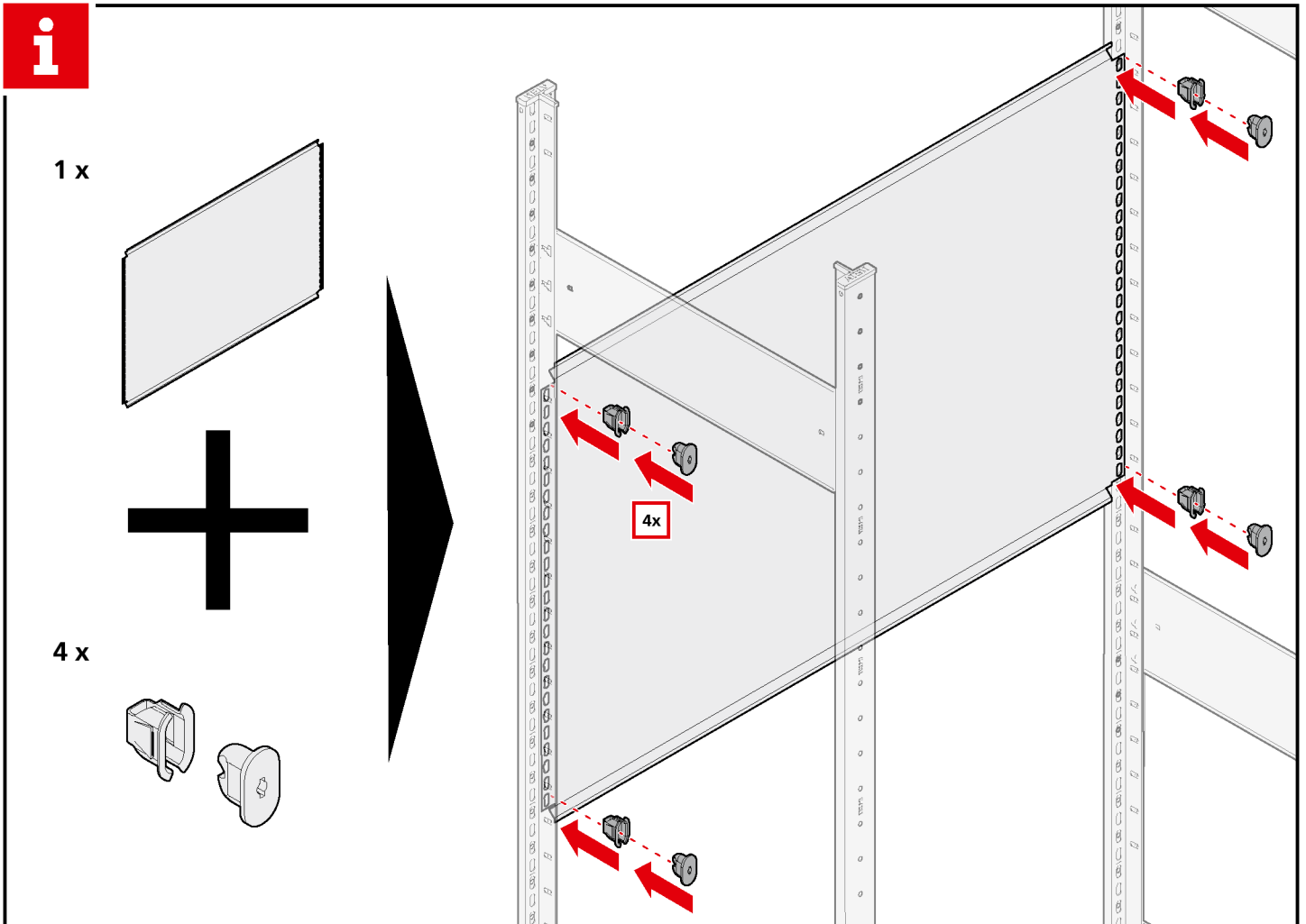
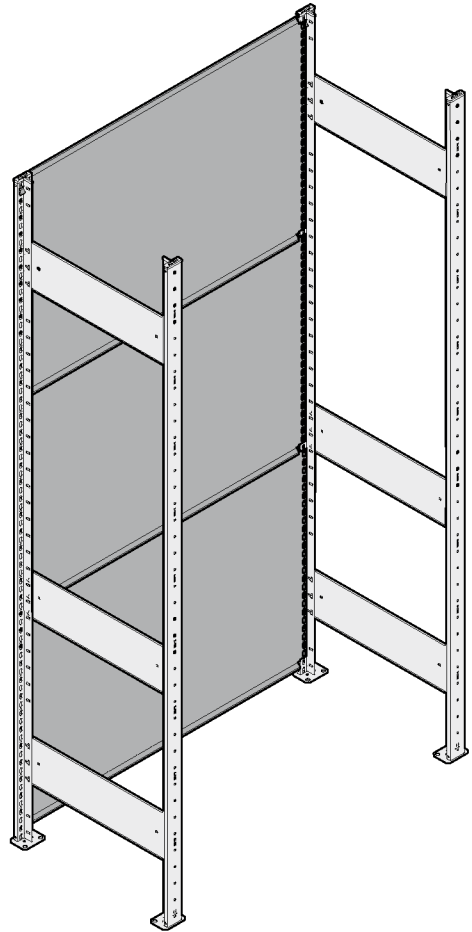
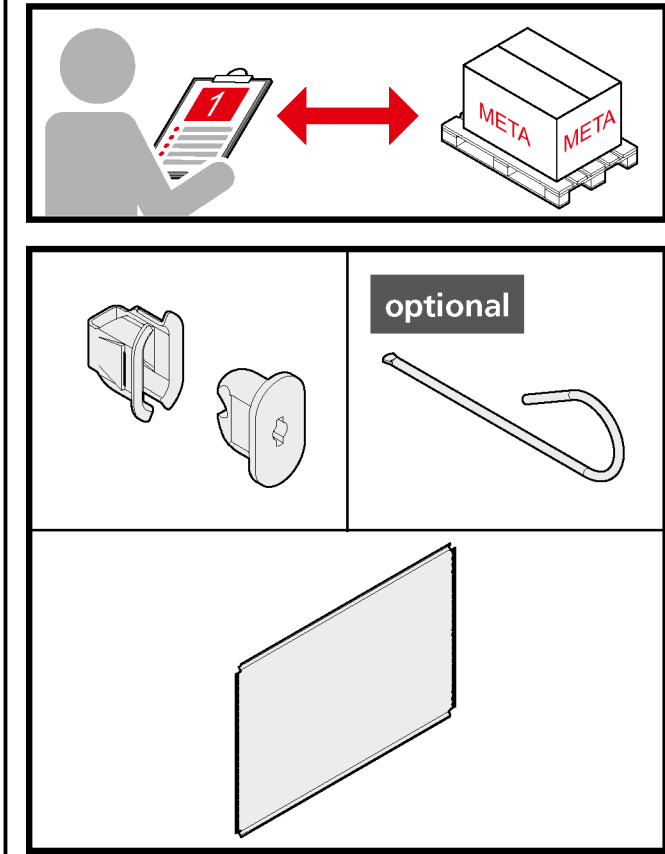


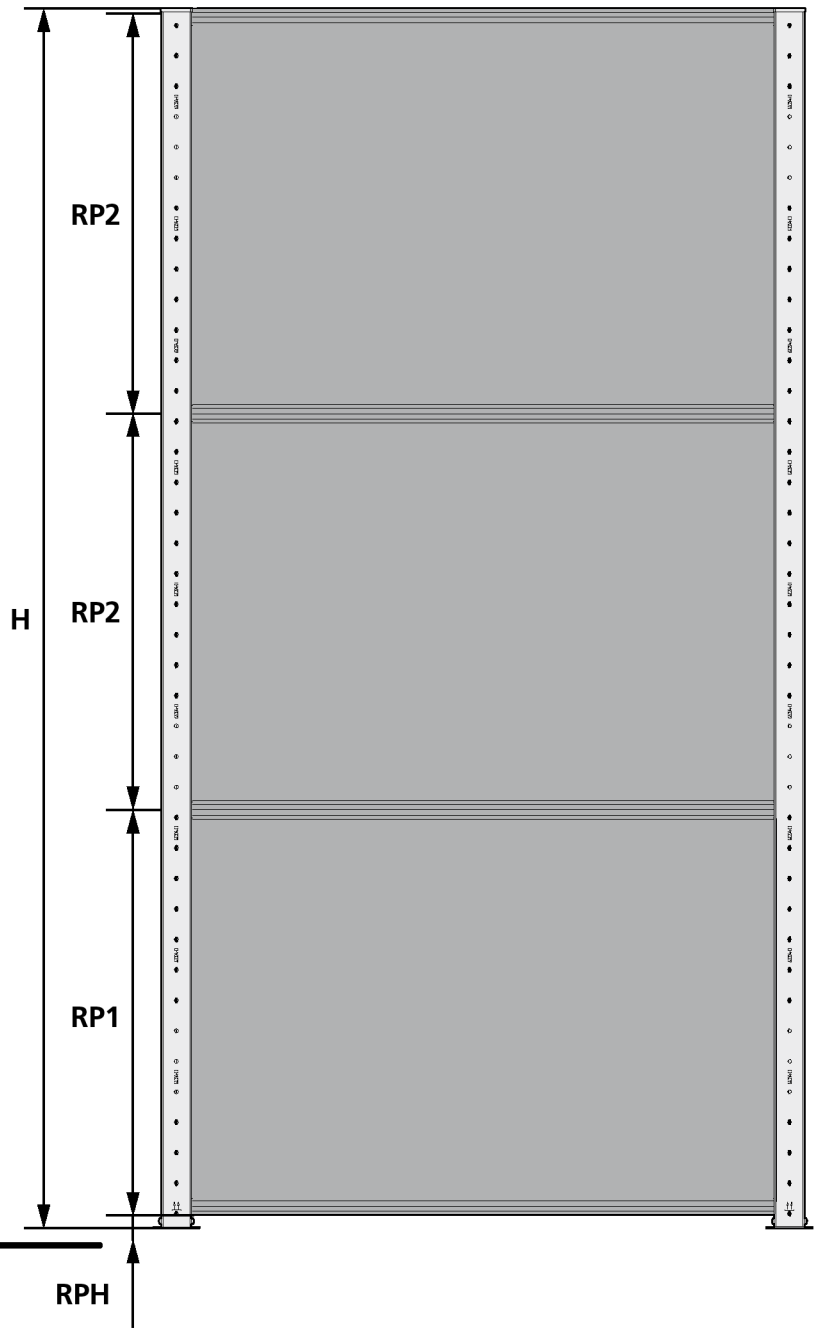
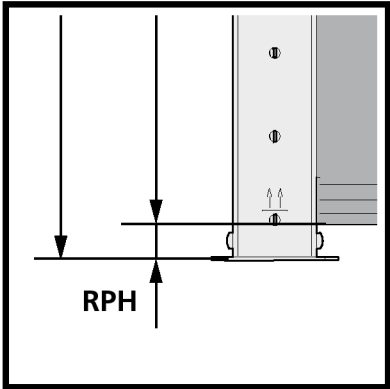
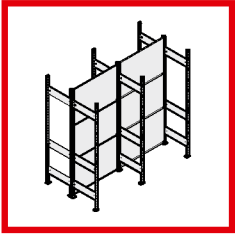
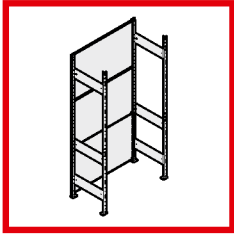
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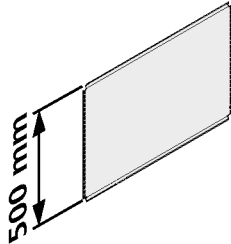
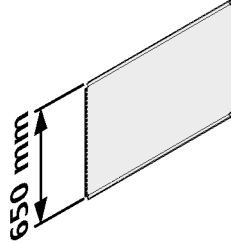
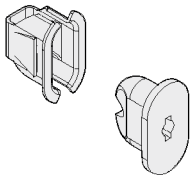


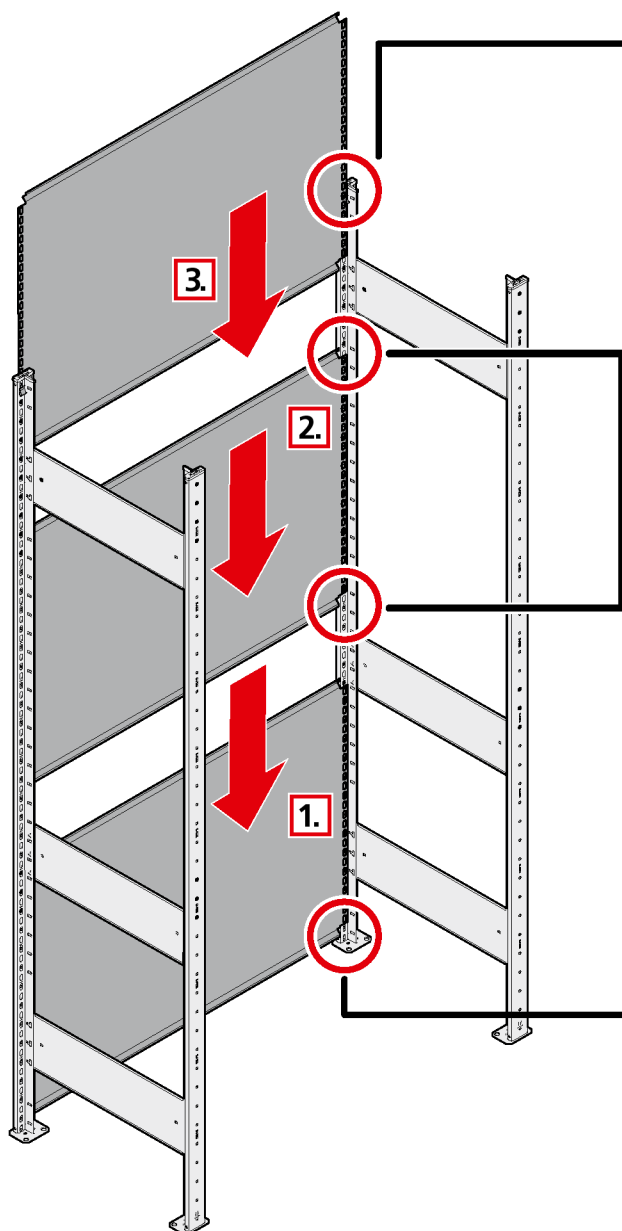
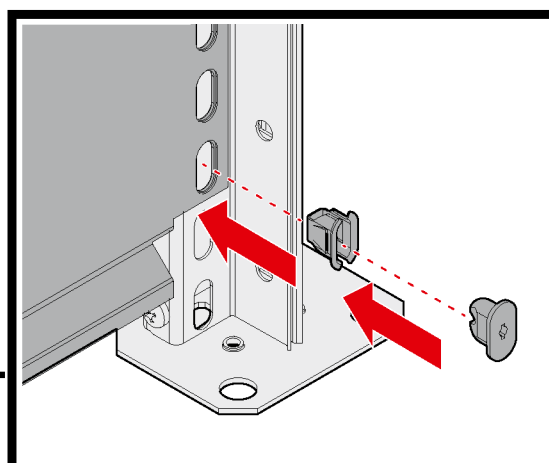
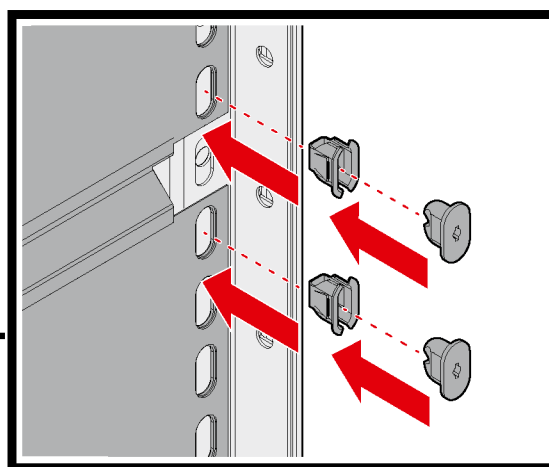
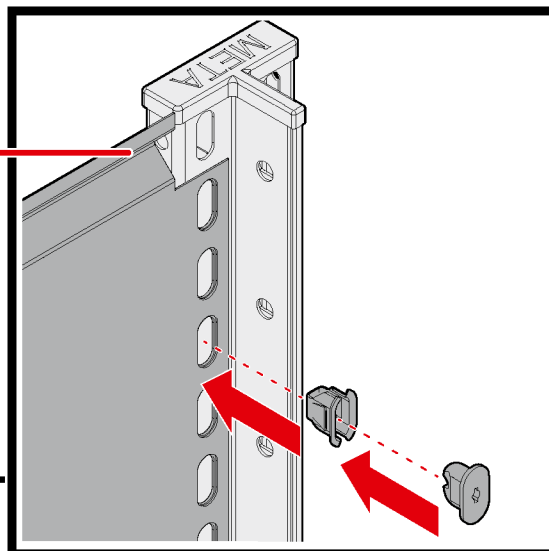
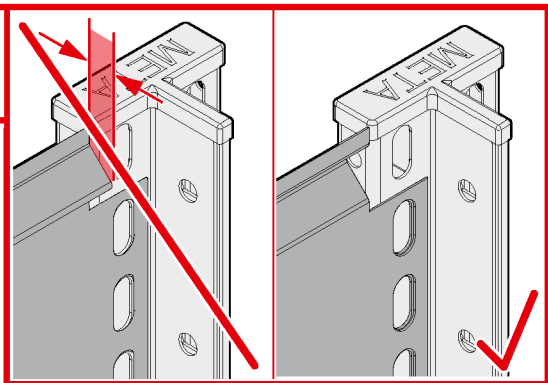
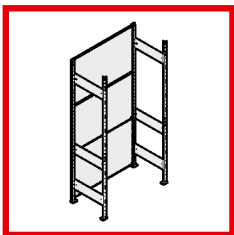
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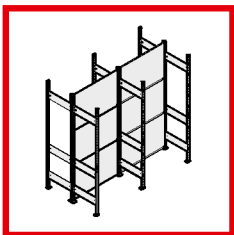






		RPH	RP1	RP2	
					
H	2000 mm	25 mm	-	3 x	12 x
	2200 mm		3 x	1 x	16 x
	2500 mm		1 x	3 x	16 x
	3000 mm		2 x	3 x	20 x

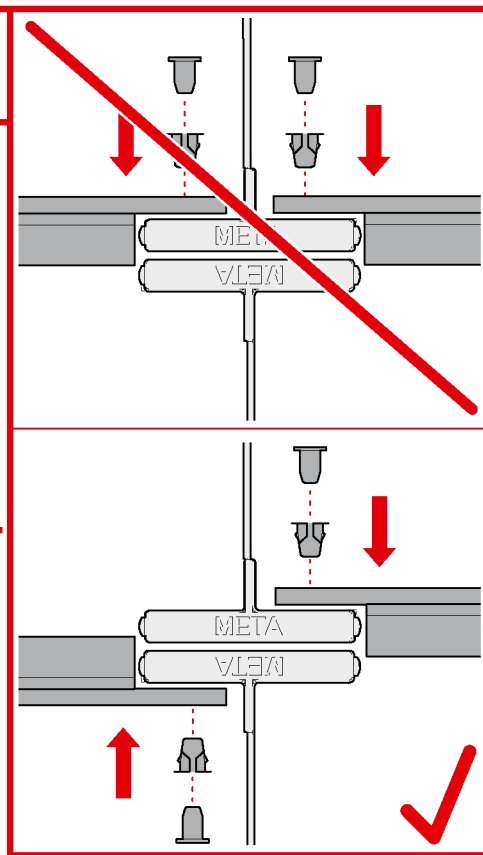




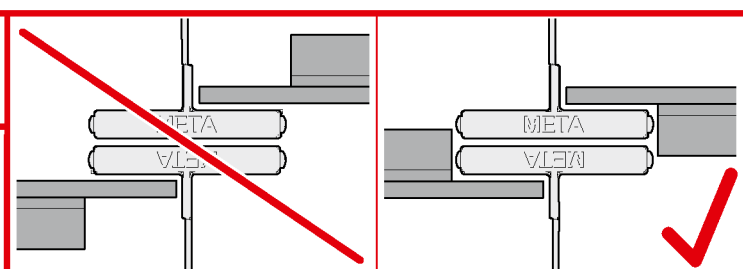
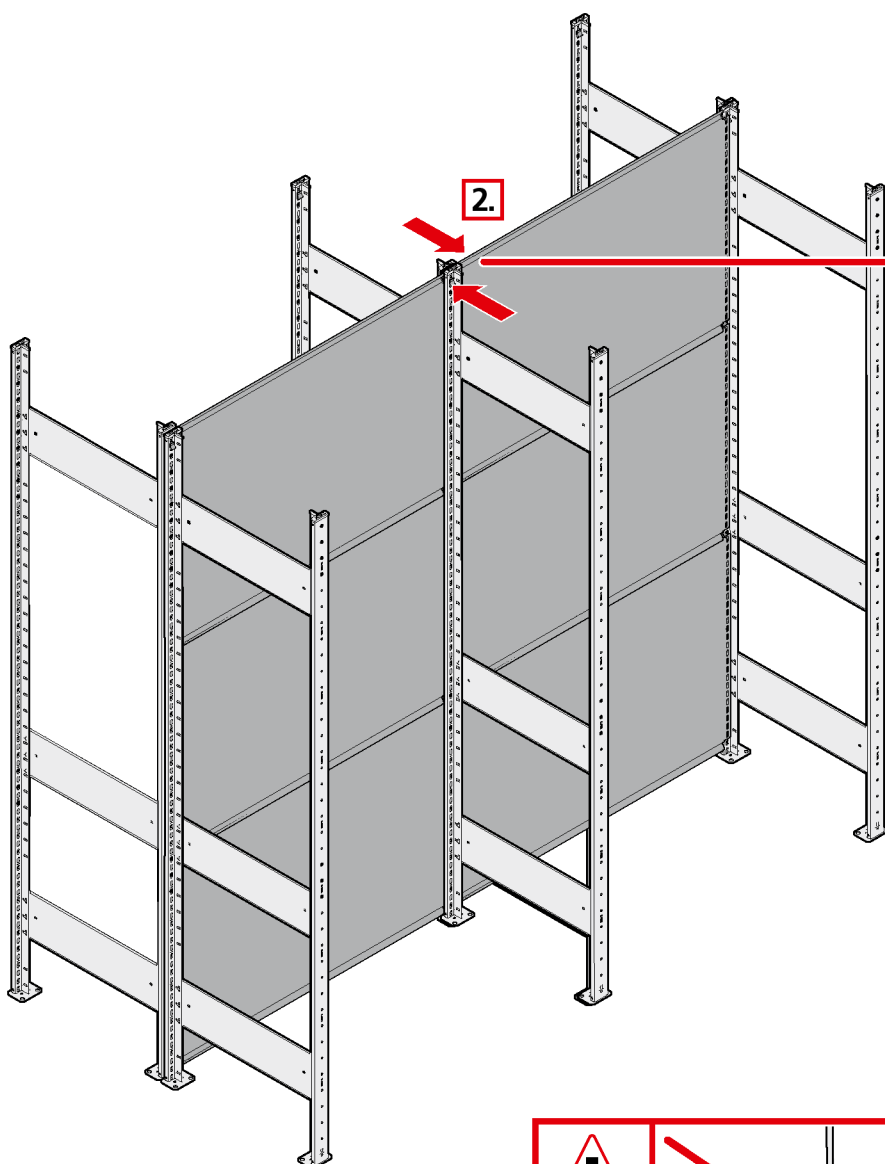
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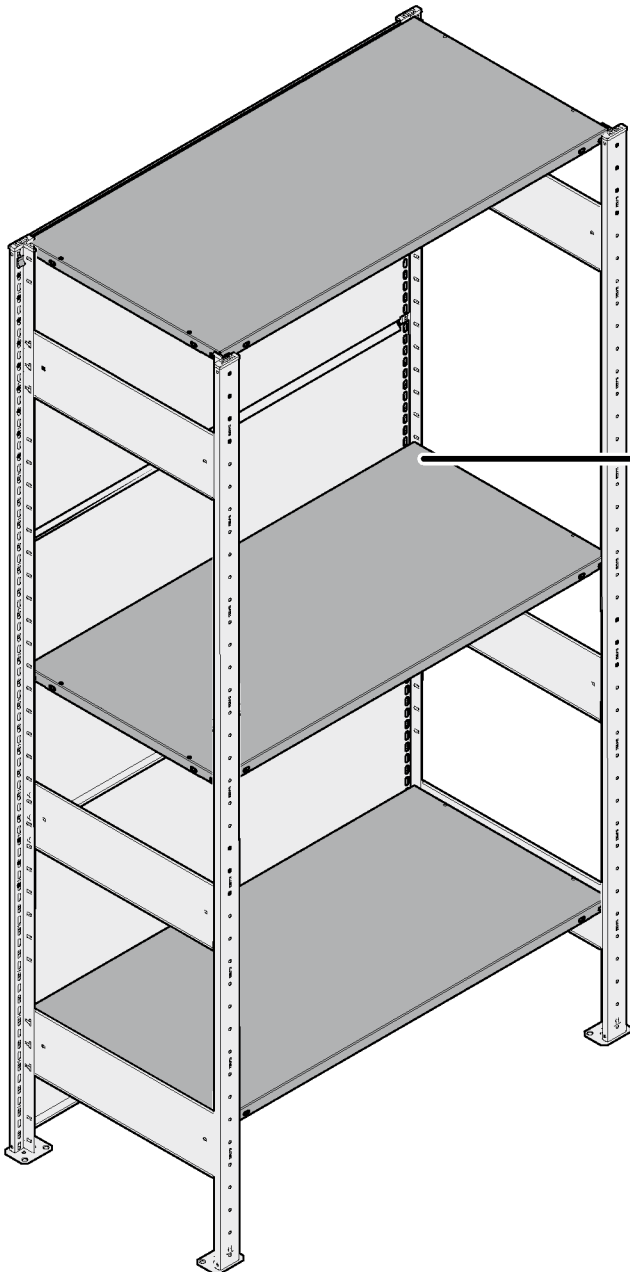
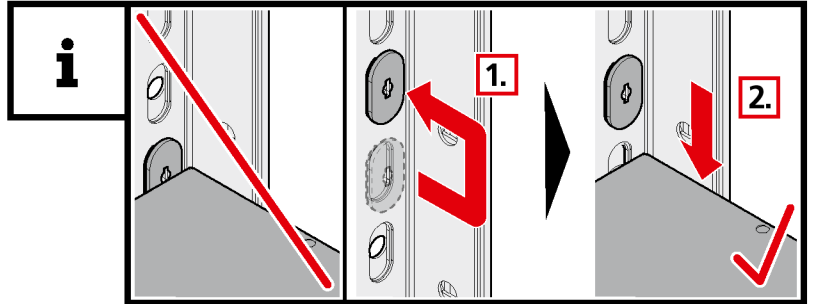
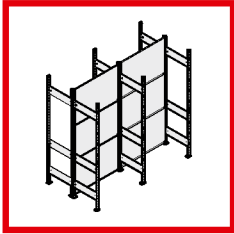
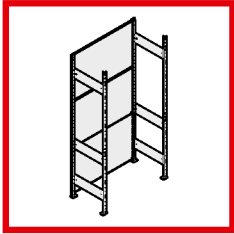


D



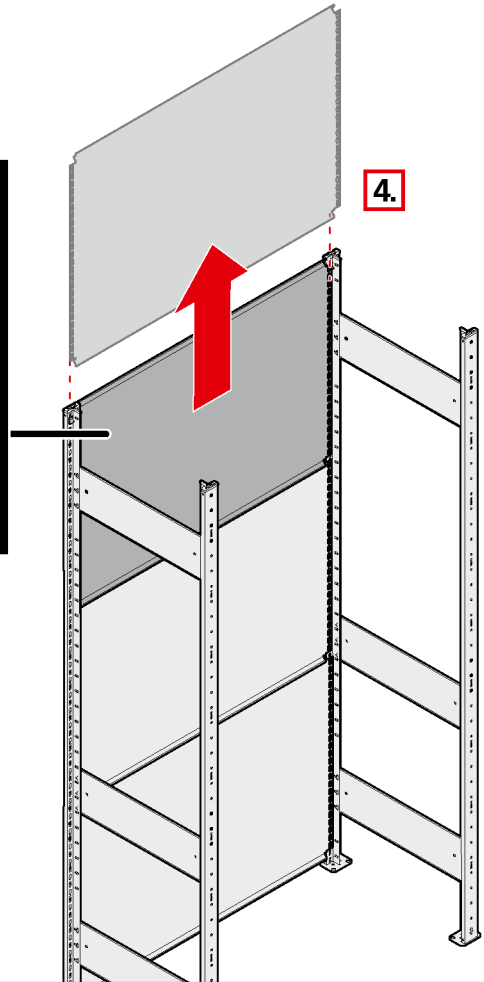
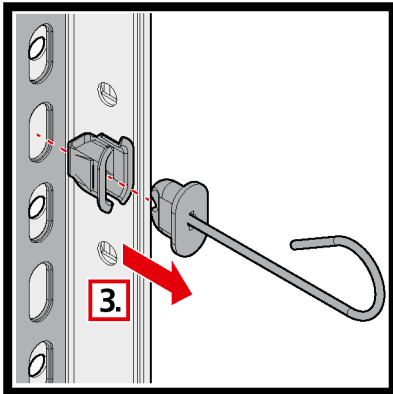
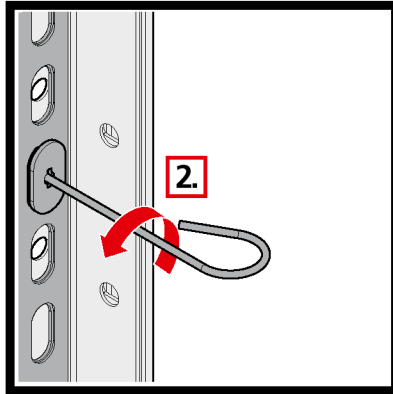
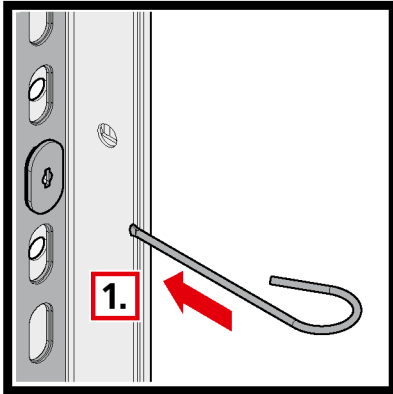
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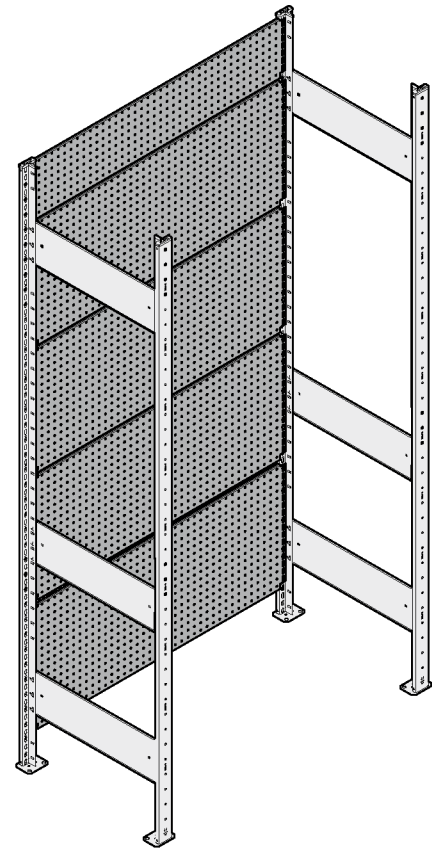
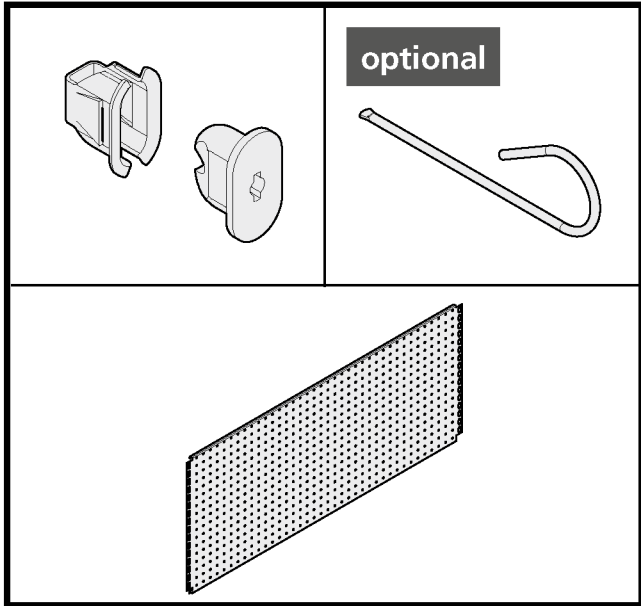
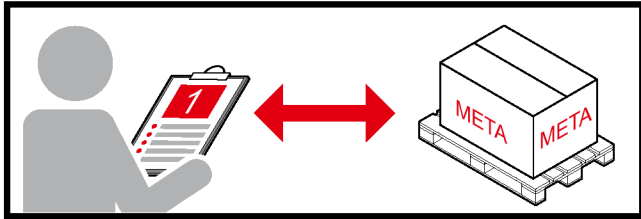
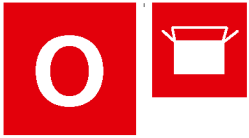




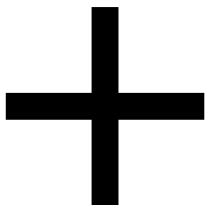
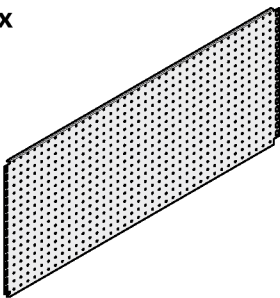


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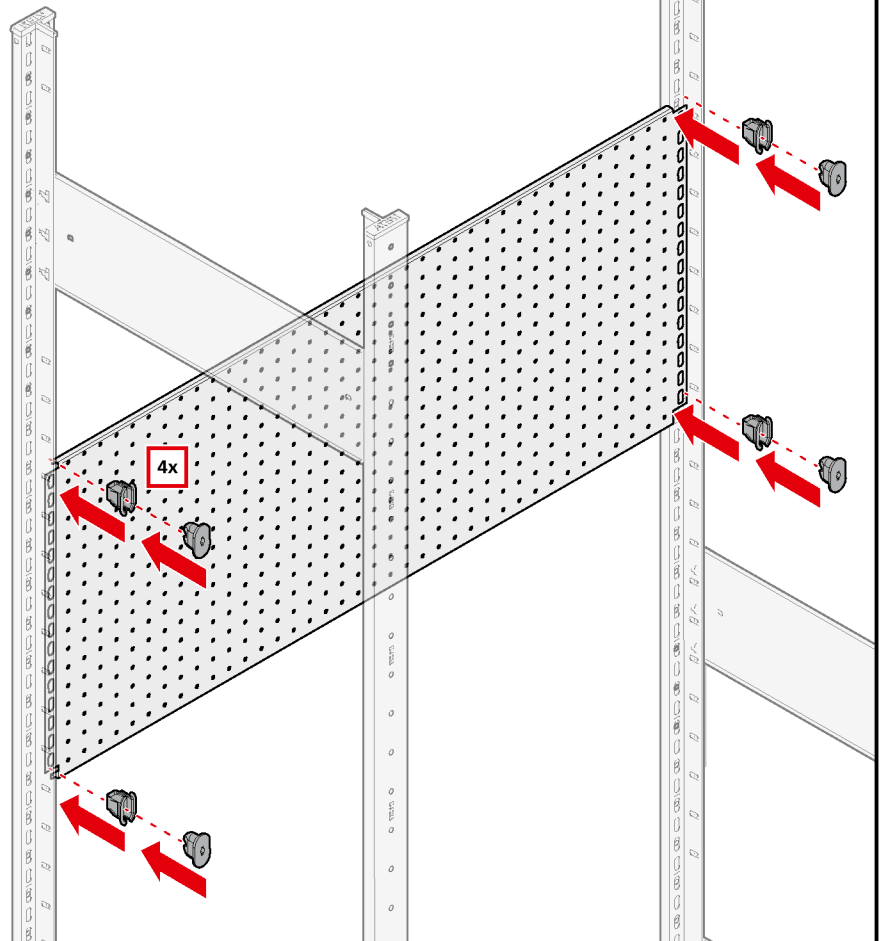
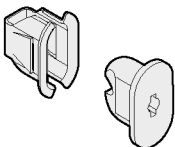


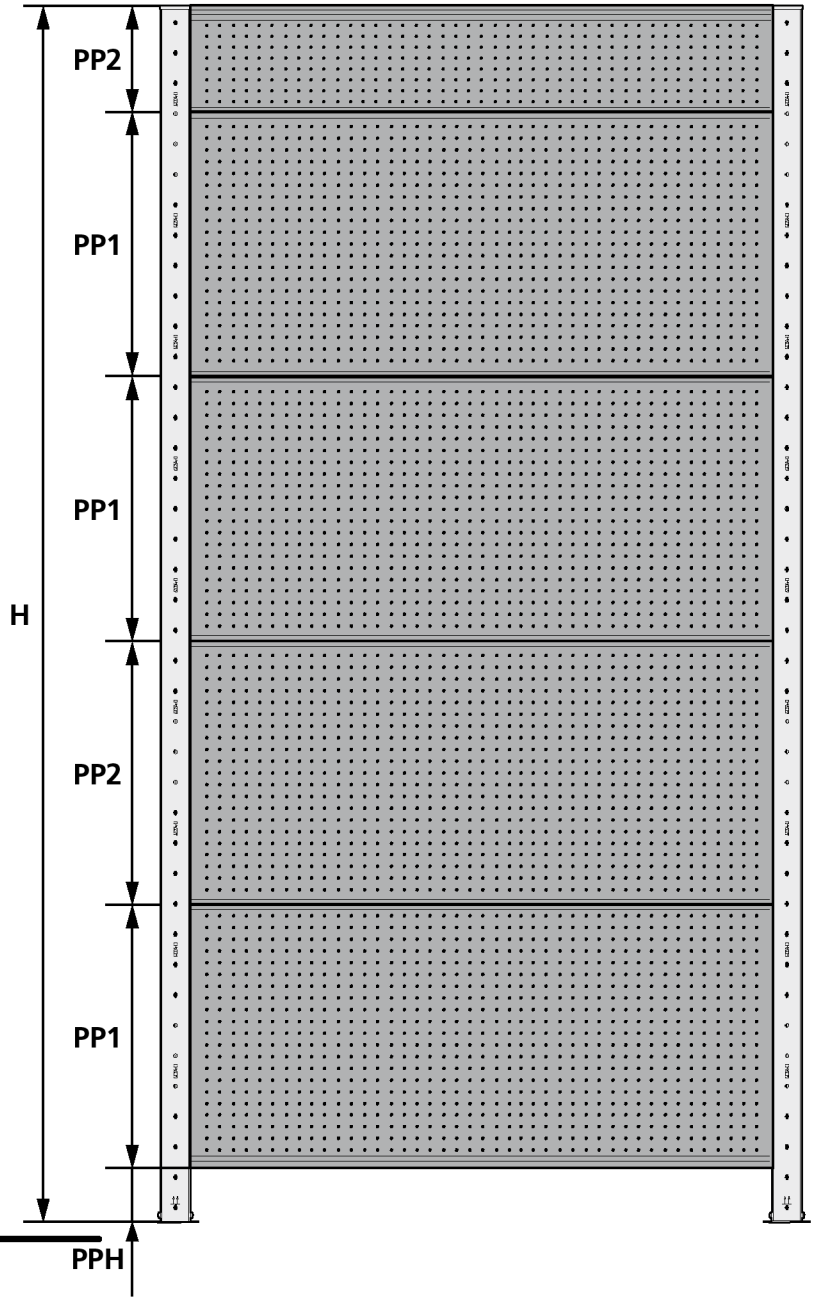
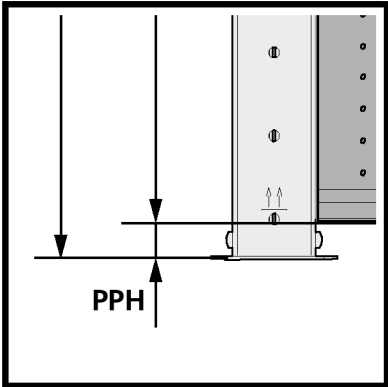
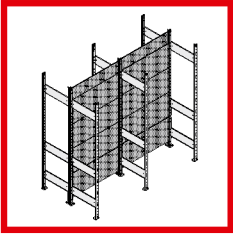
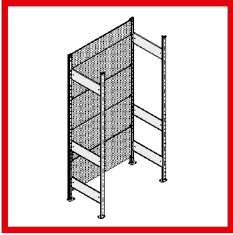


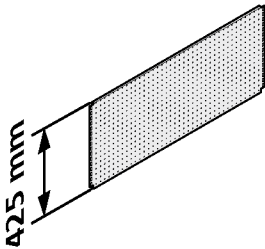
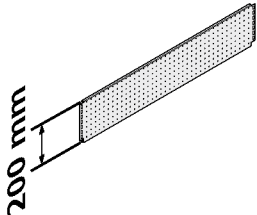
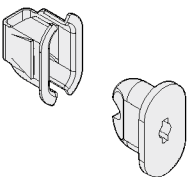
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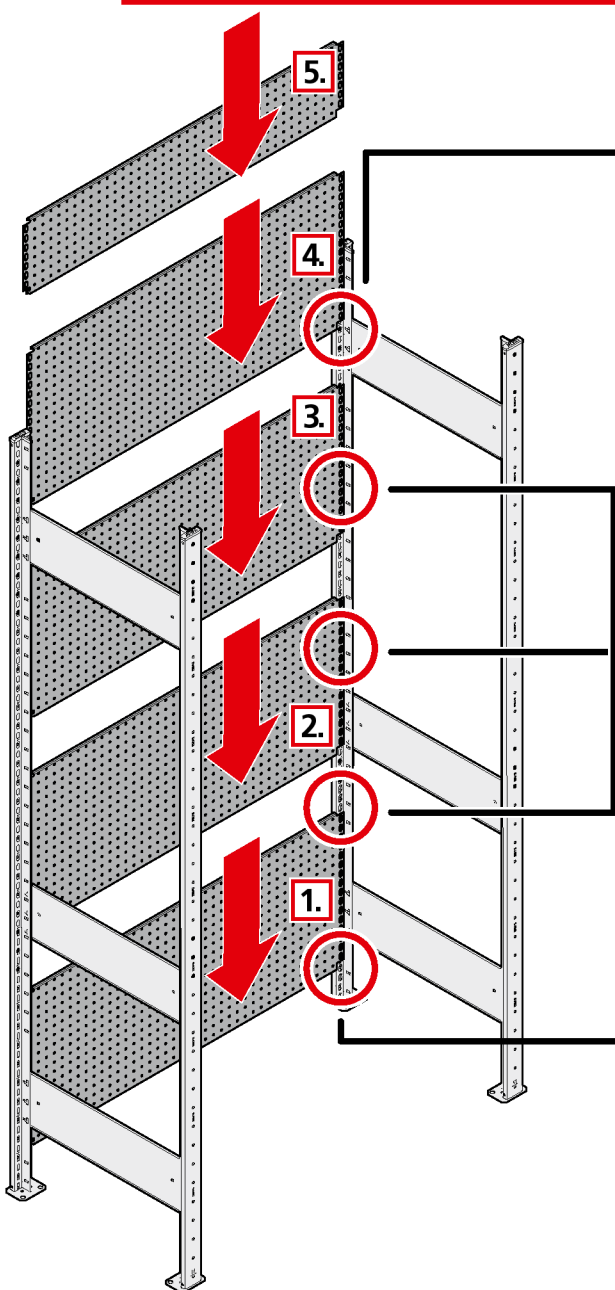
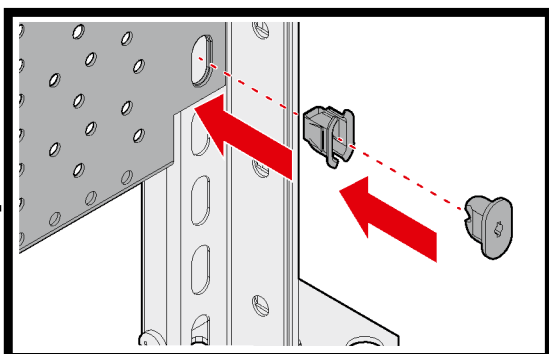
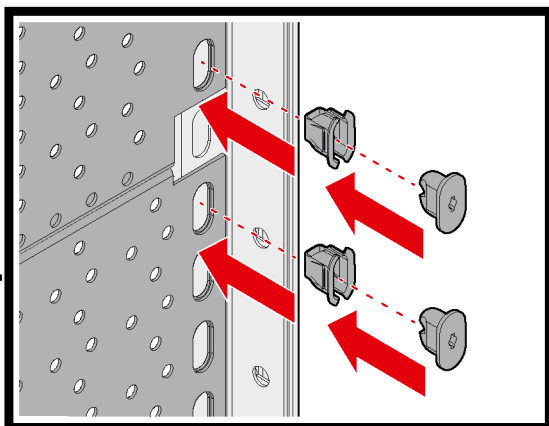
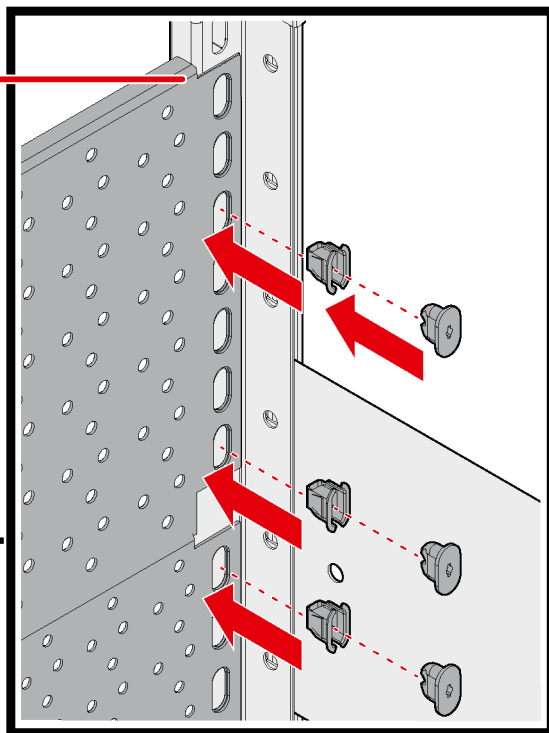
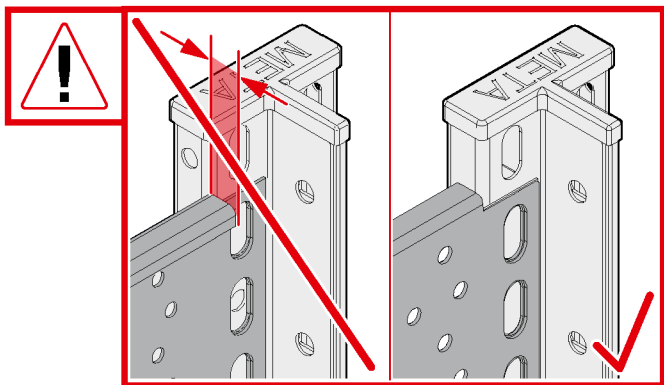
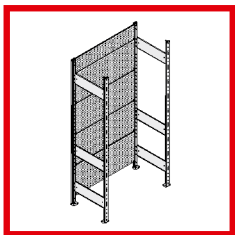


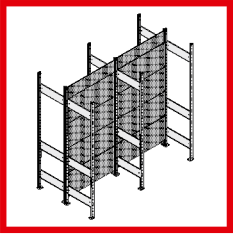
4 x





		PPH	PP1	PP2	
					
H	2000 mm	90 mm	4 x	1 x	20 x
	2200 mm		4 x	2 x	24 x
	2500 mm	15 mm	3 x	6 x	36 x
	3000 mm		7 x	-	28 x

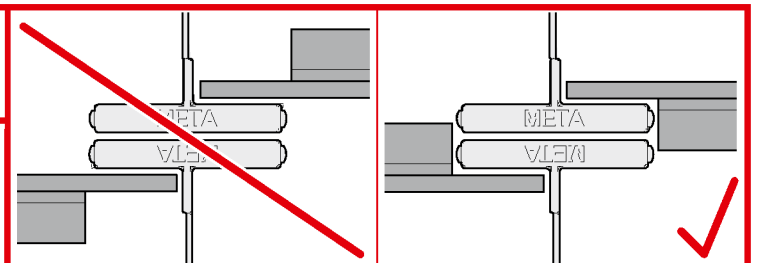
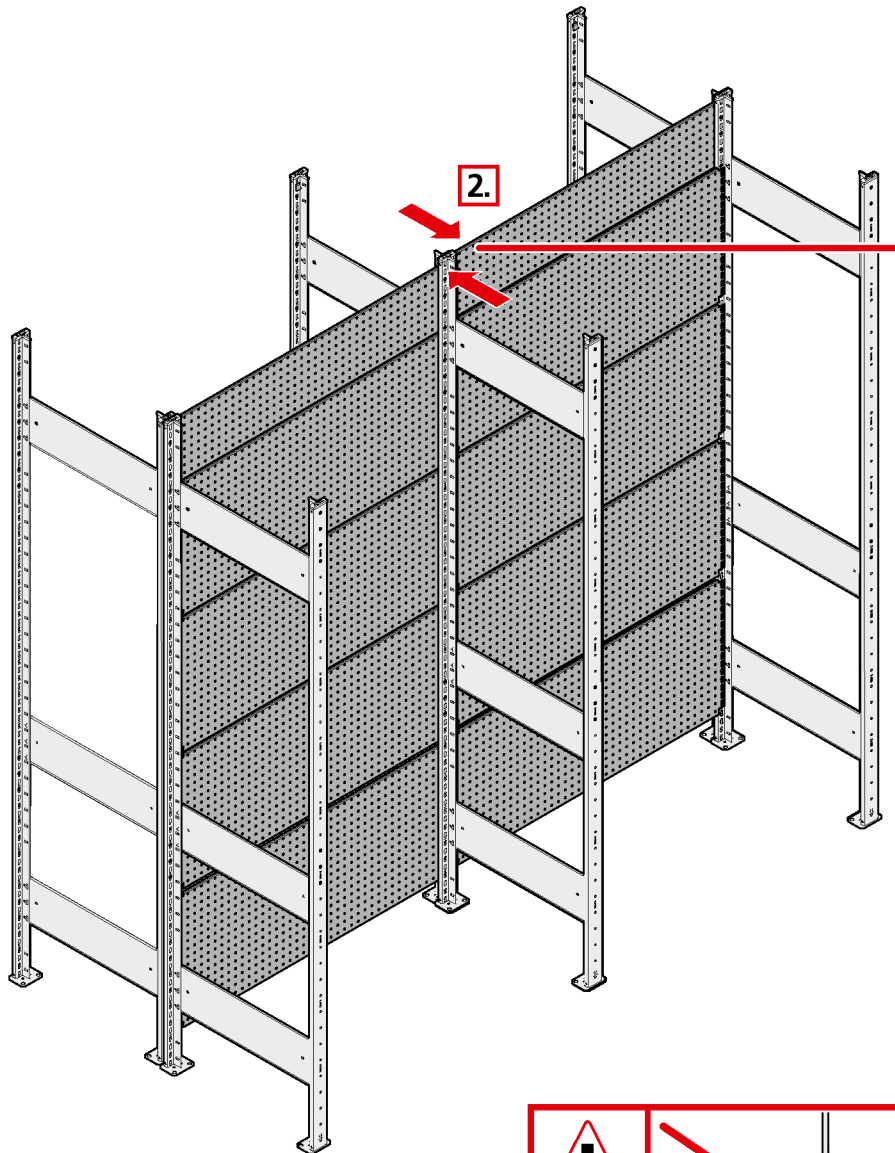
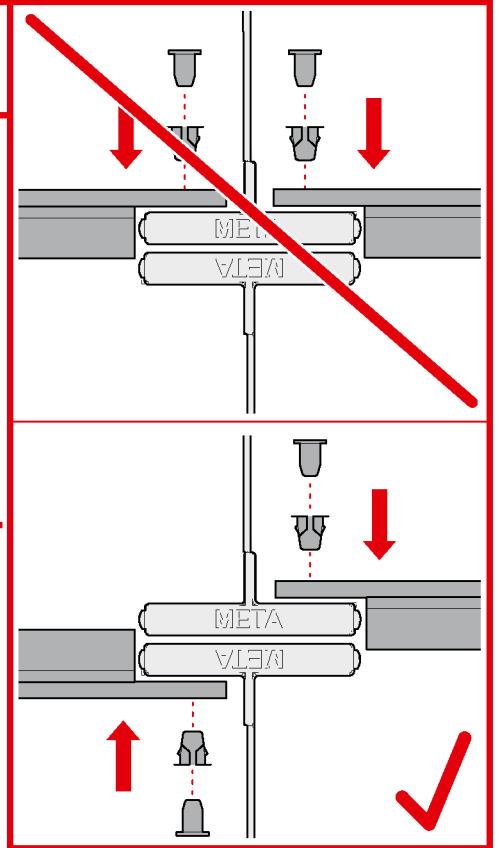


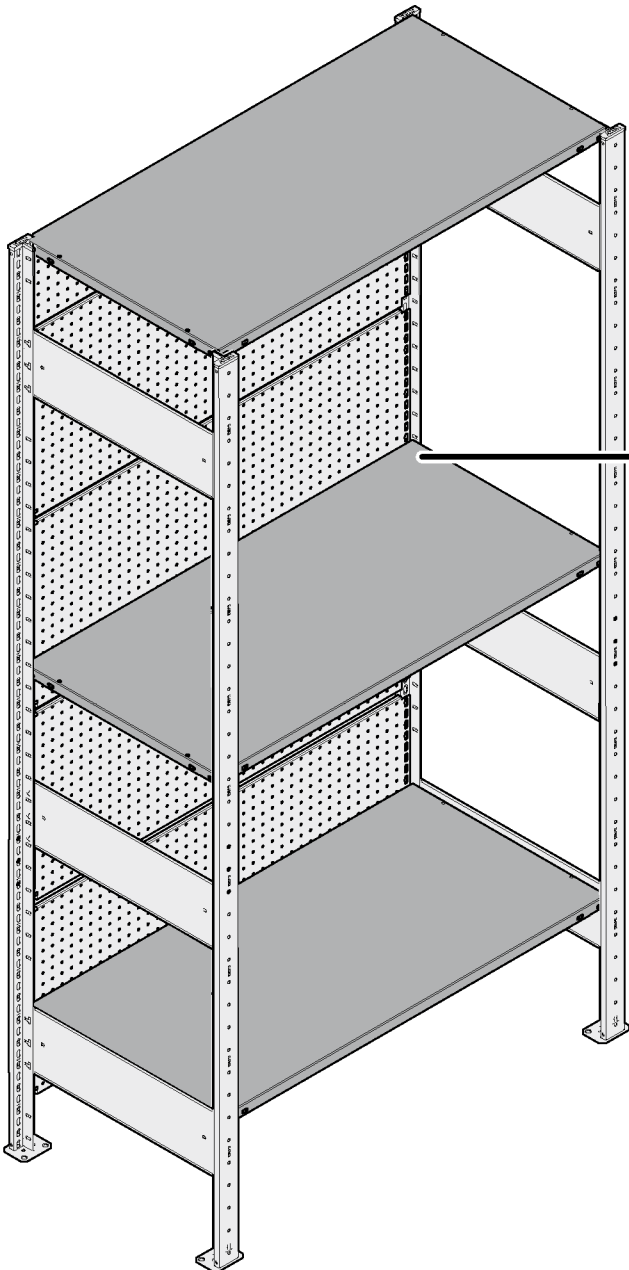
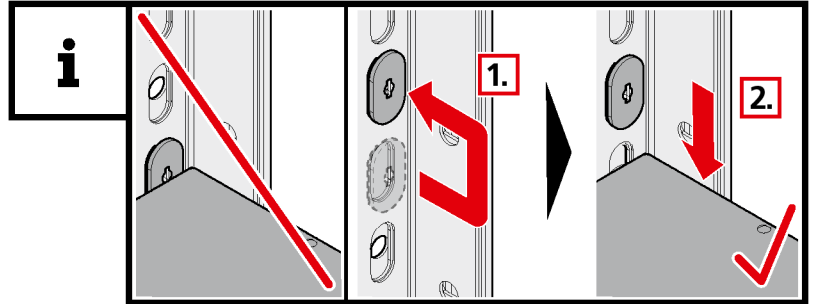
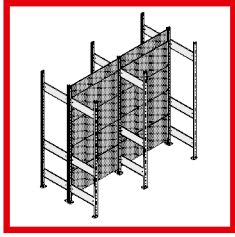
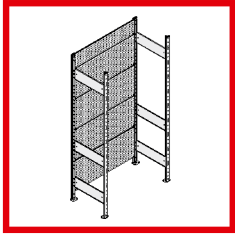


1.



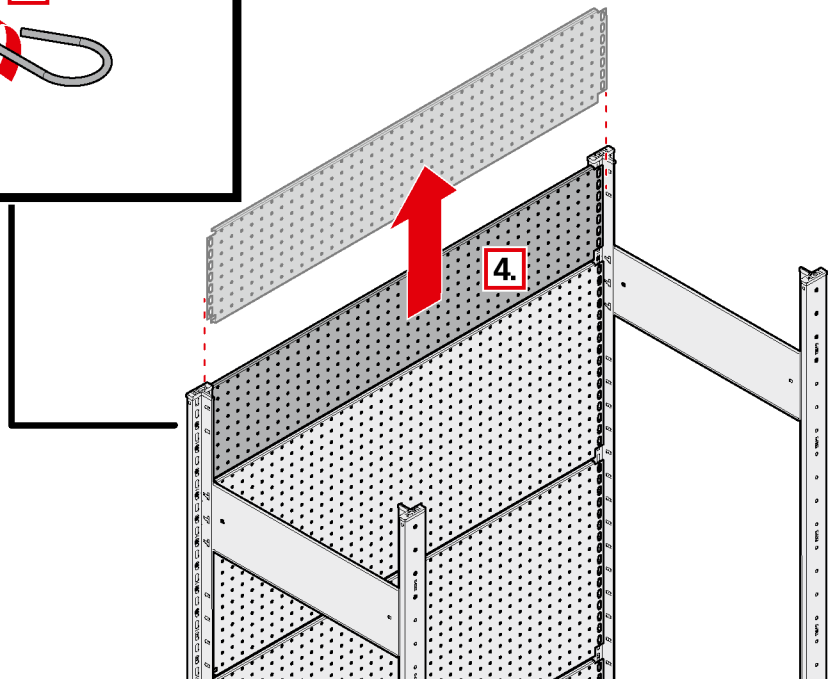
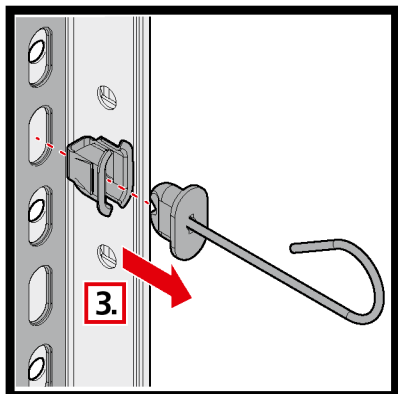
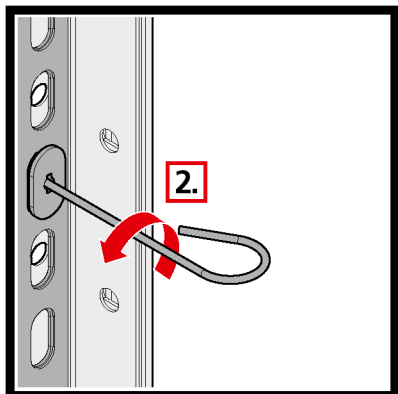
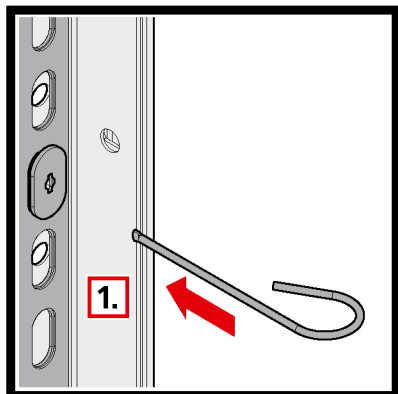
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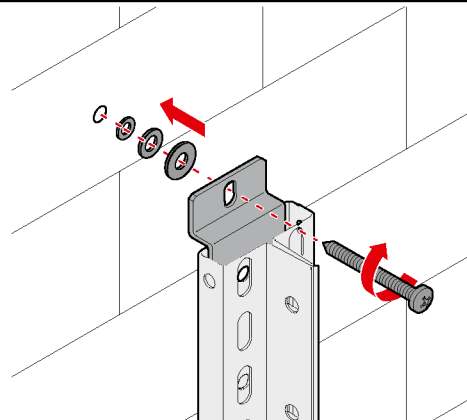
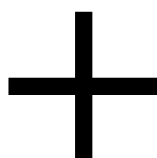
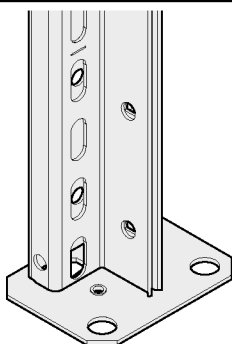
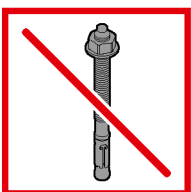
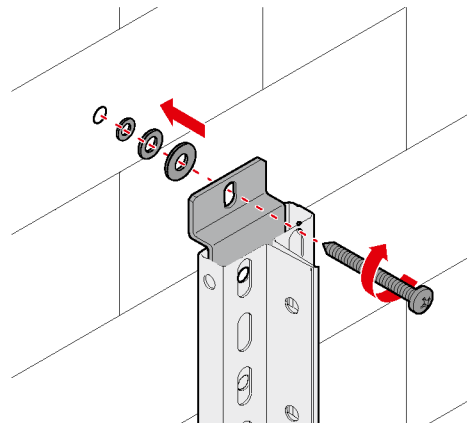
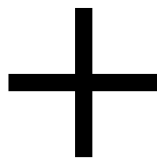
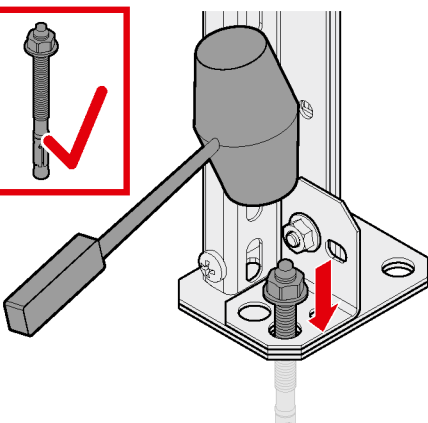
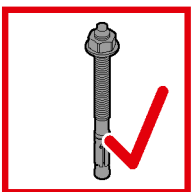
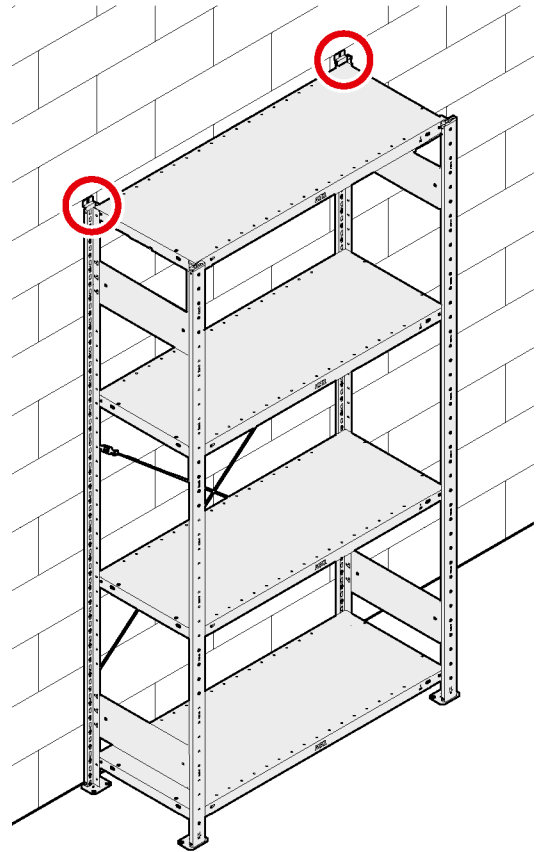
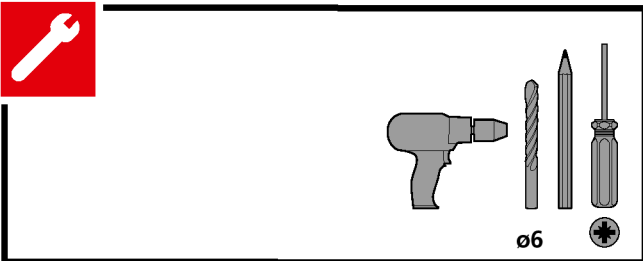
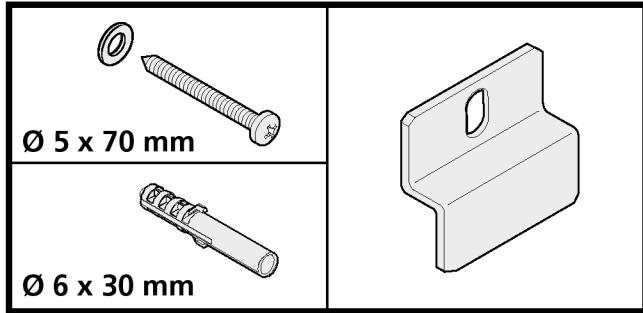
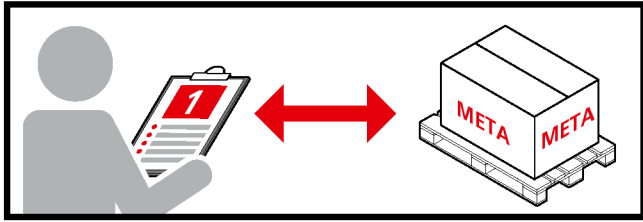
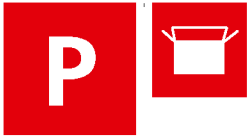




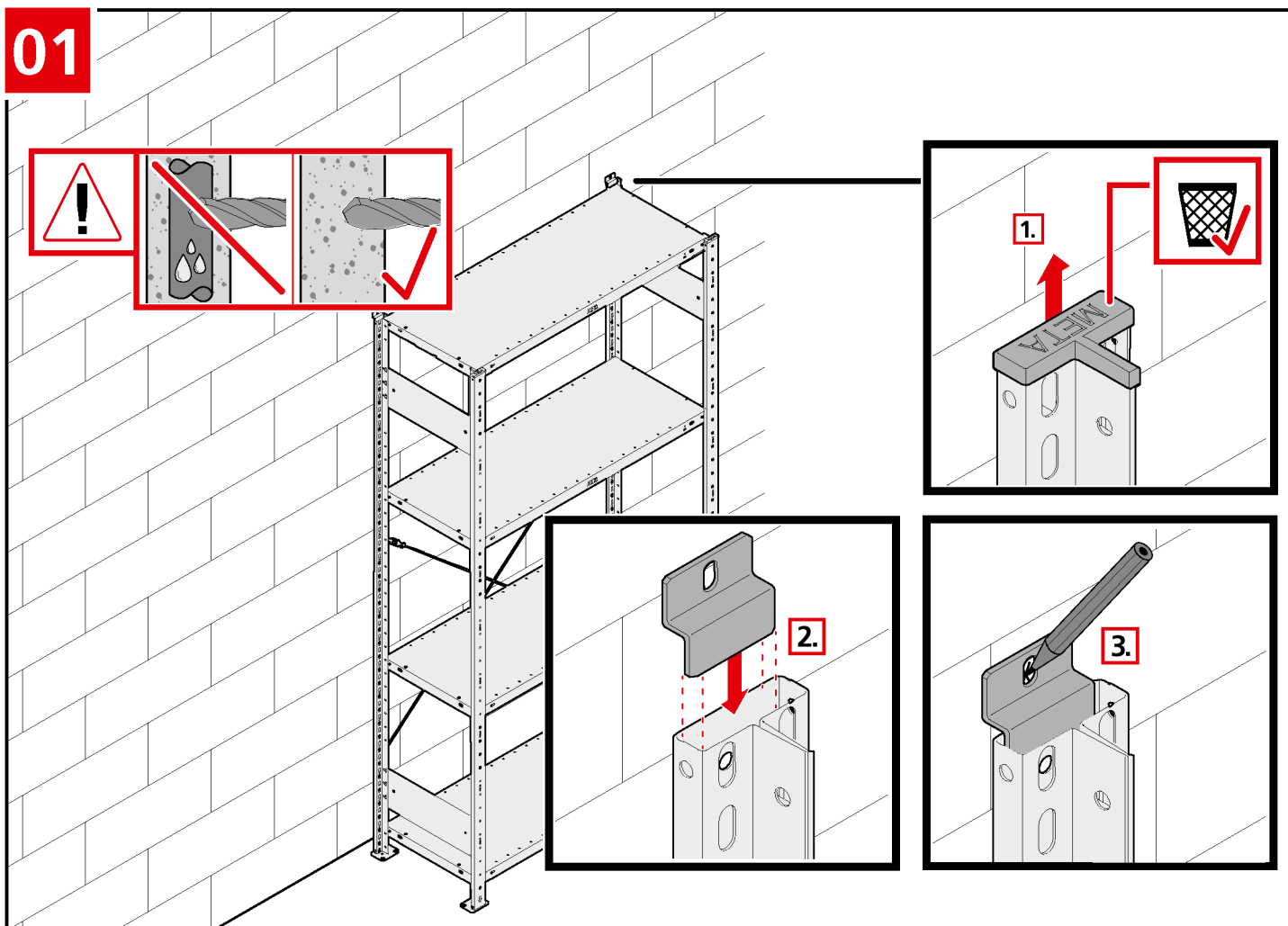


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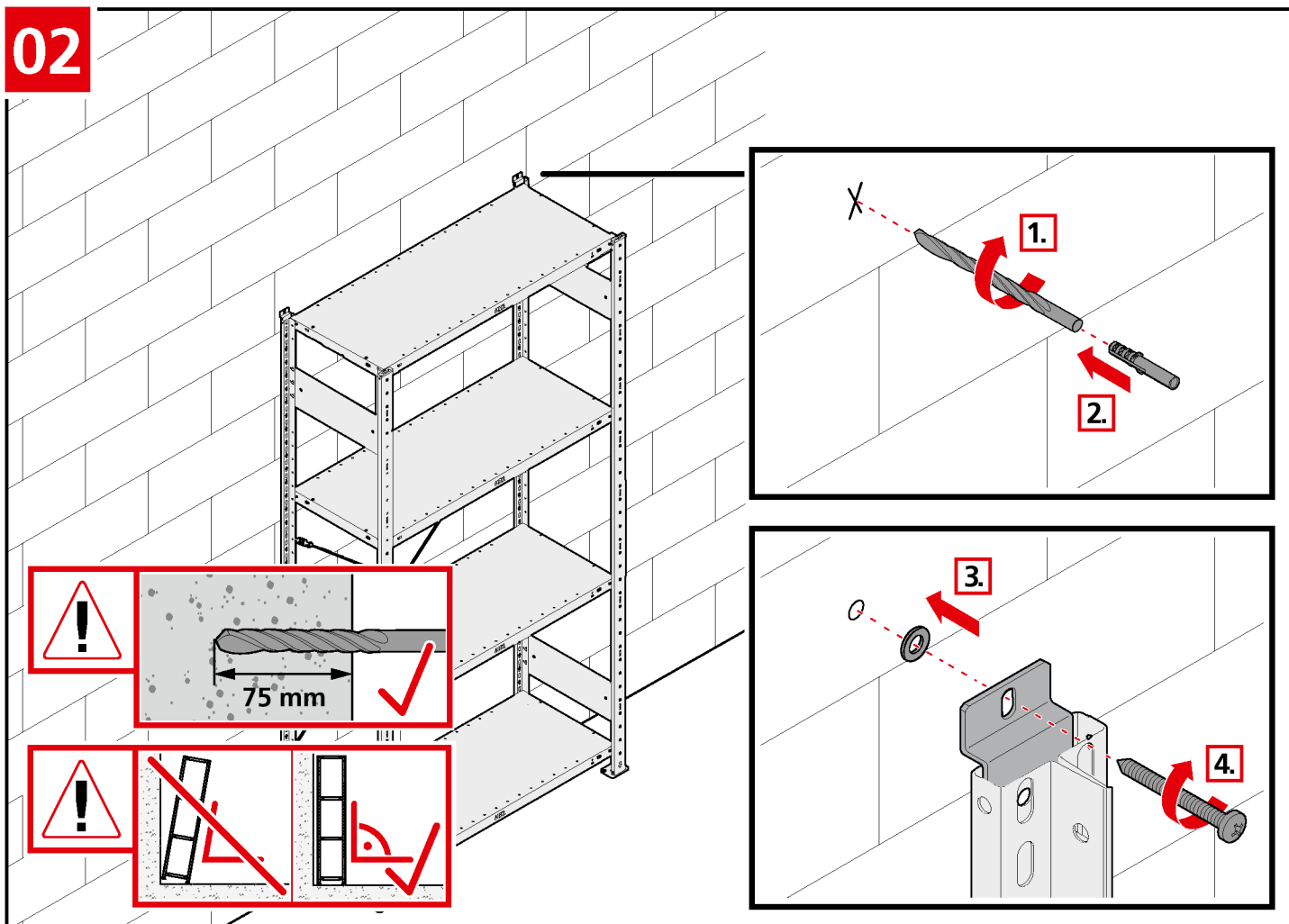




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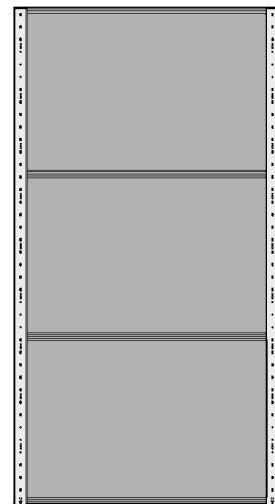
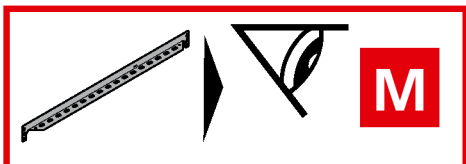
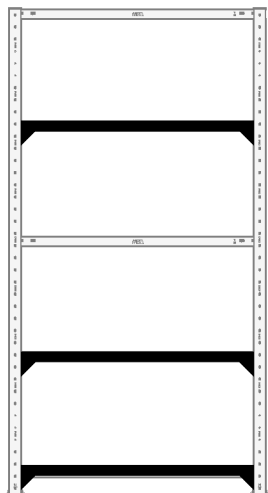
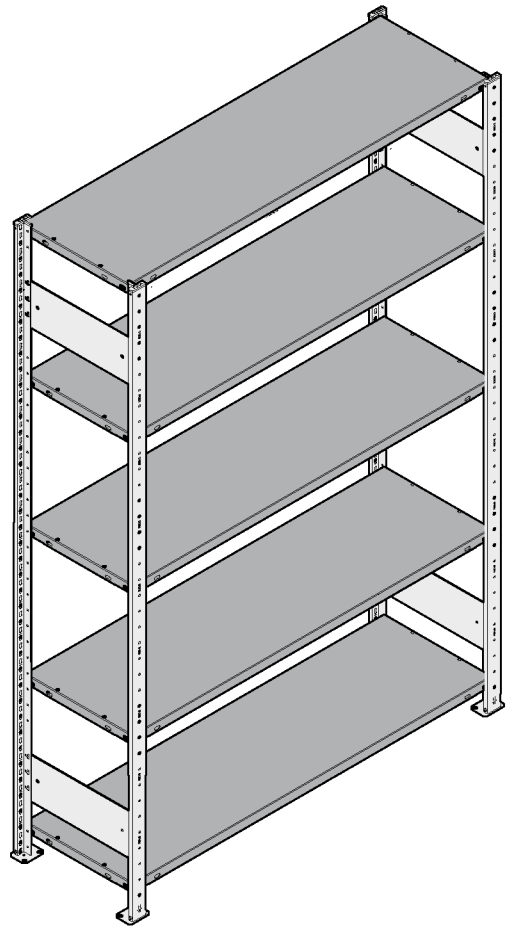
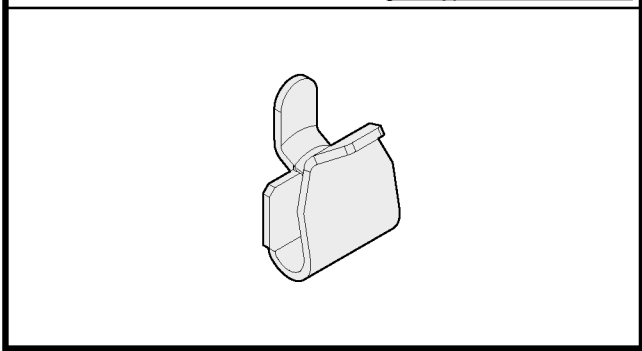
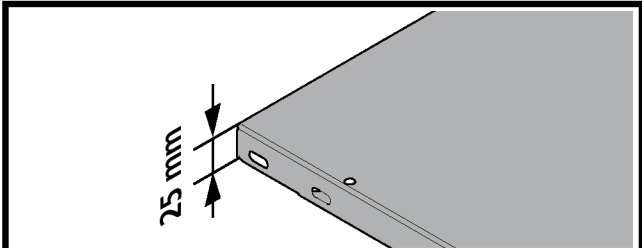
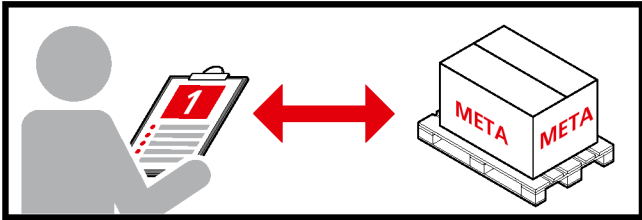


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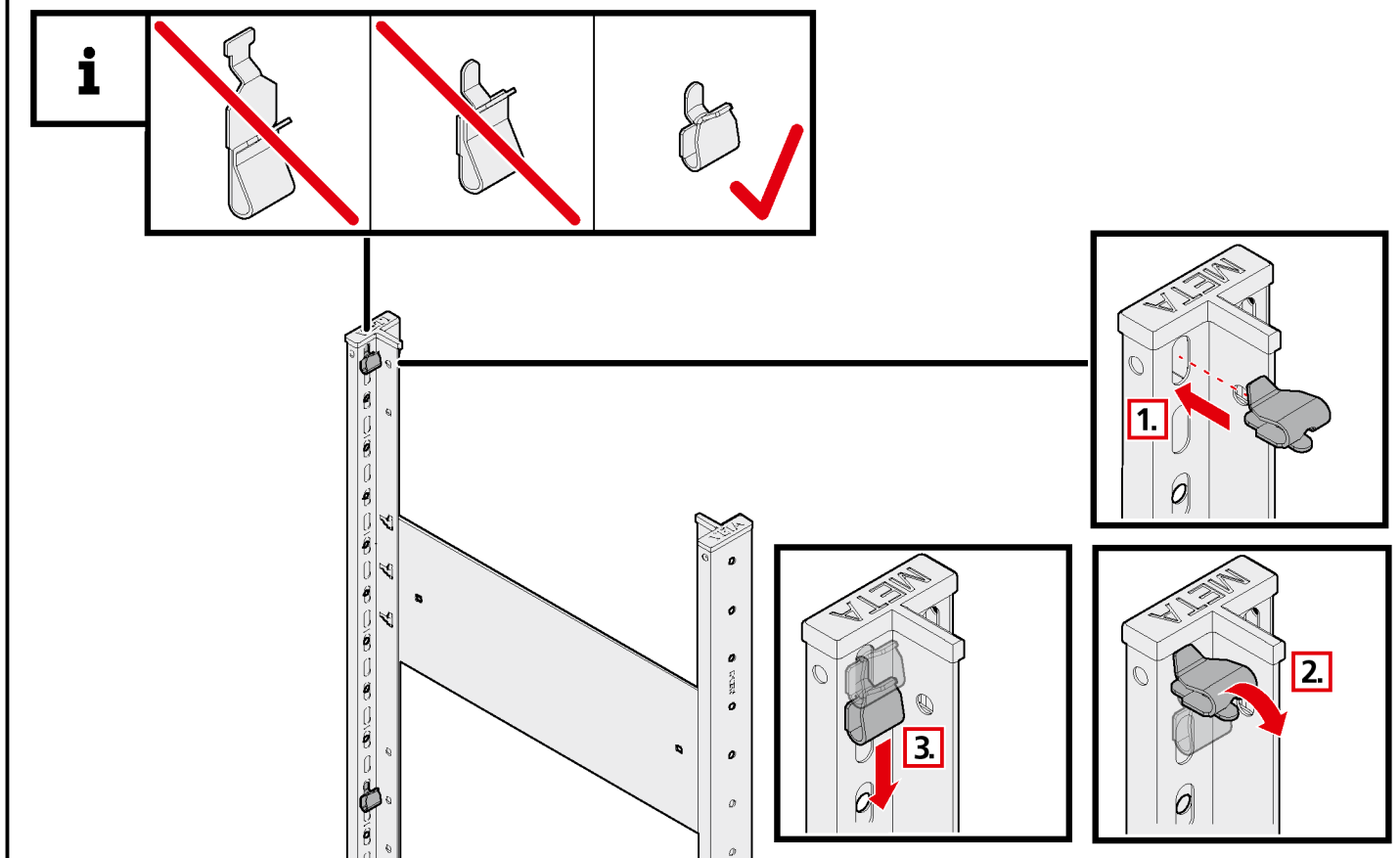




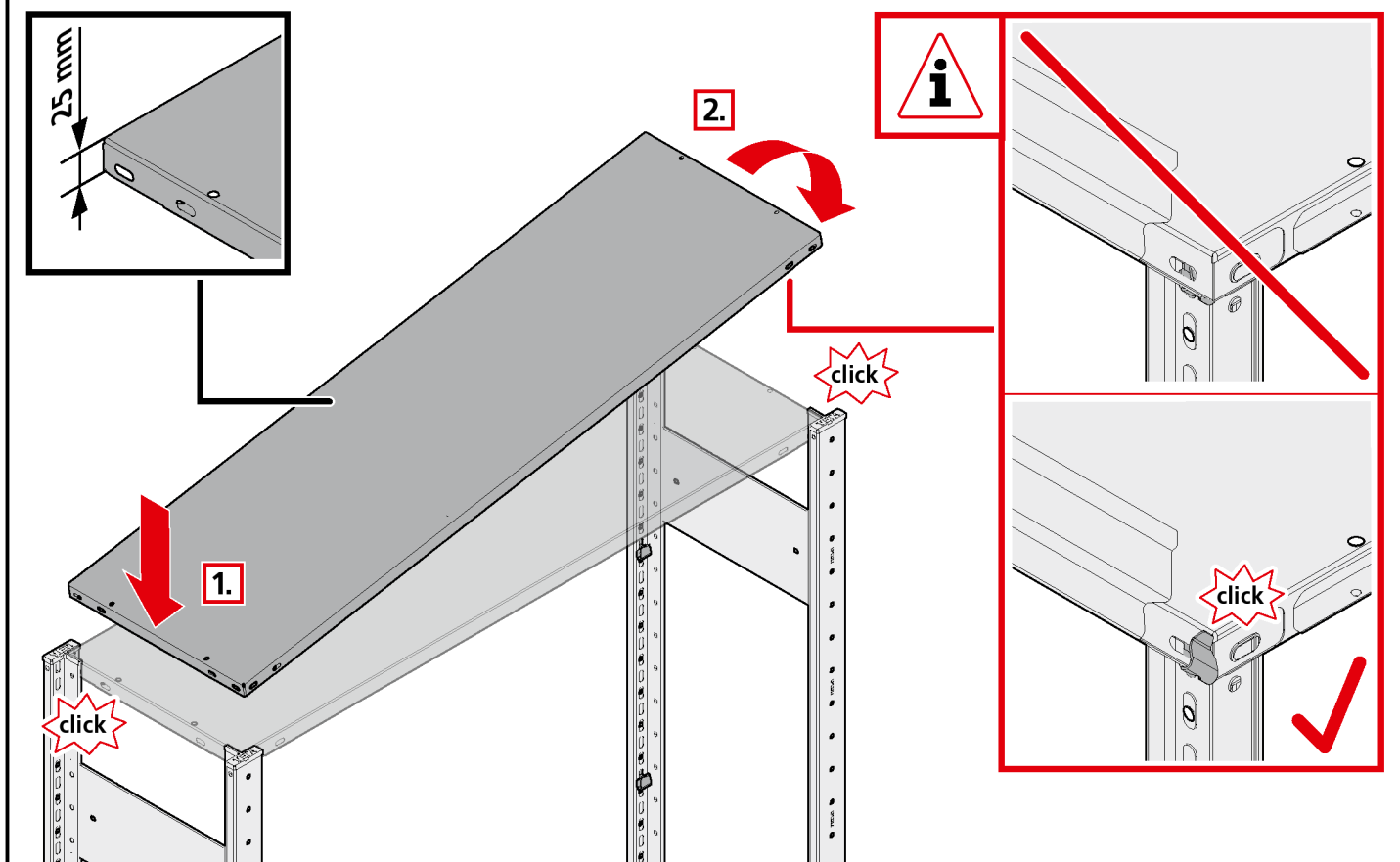
COMPACT



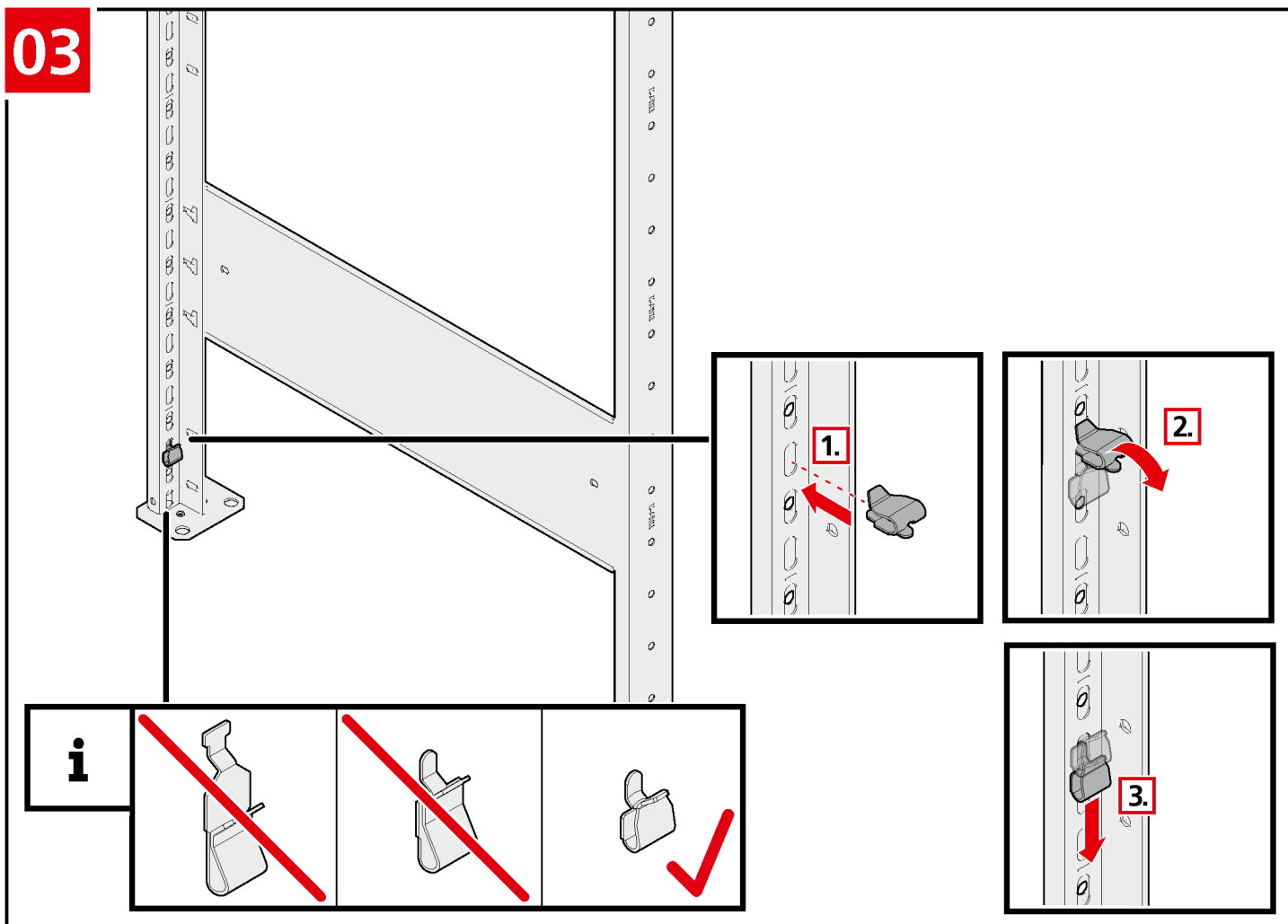
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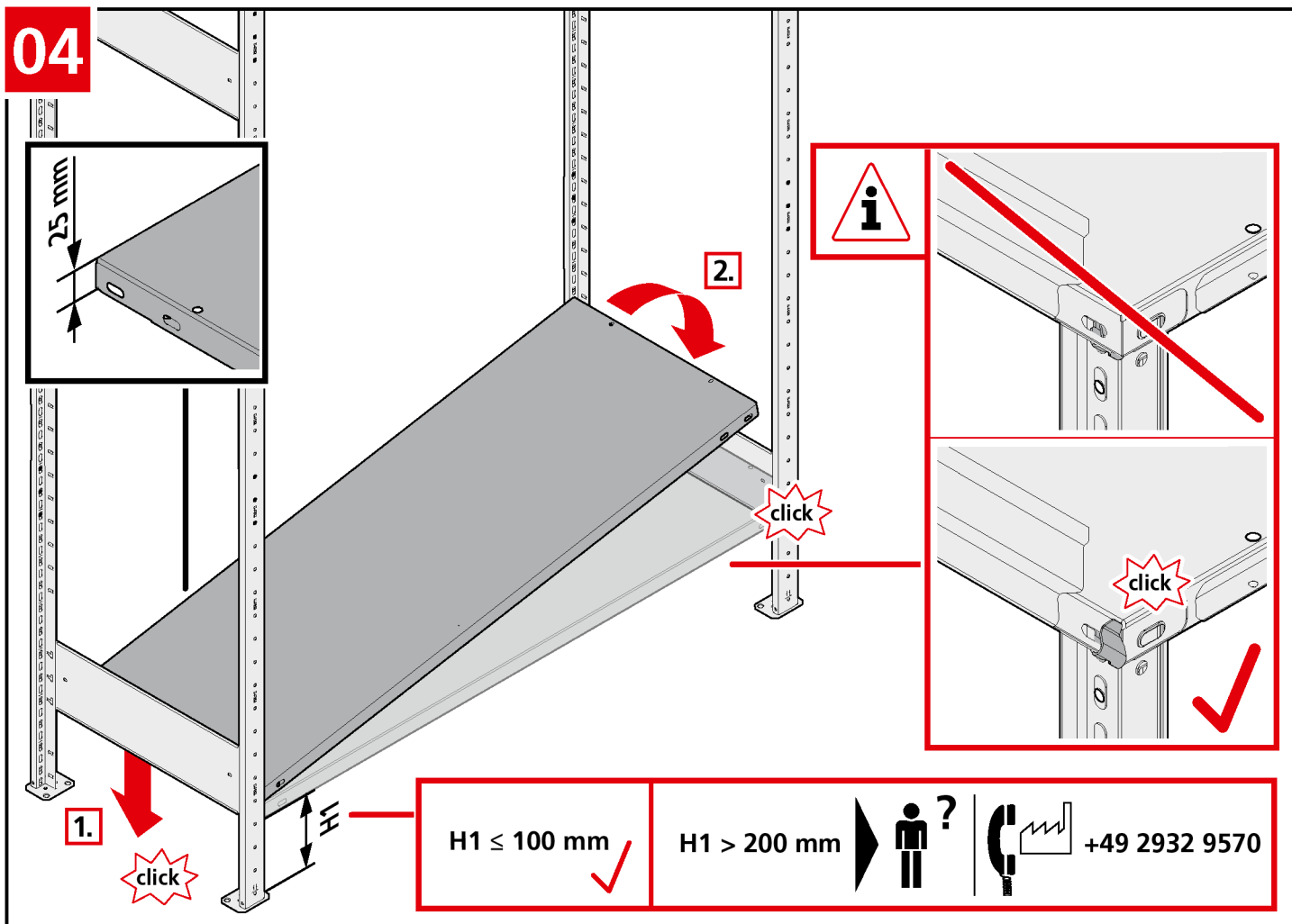
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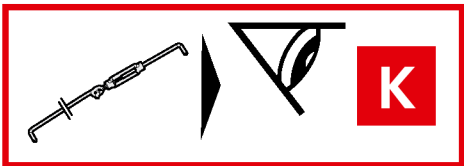
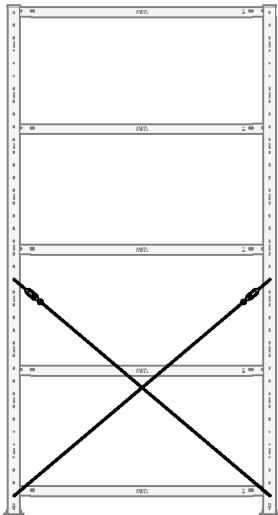


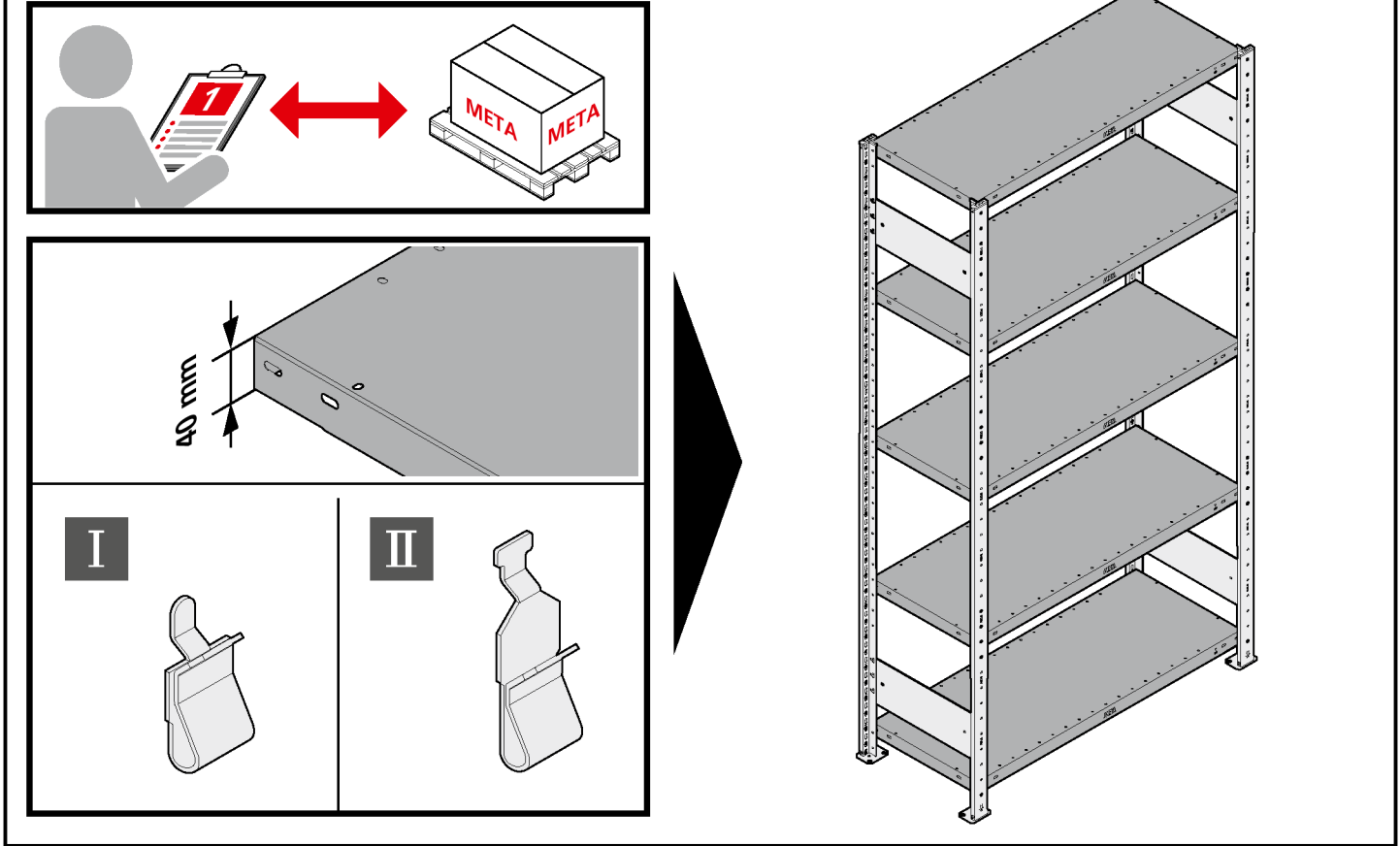
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04







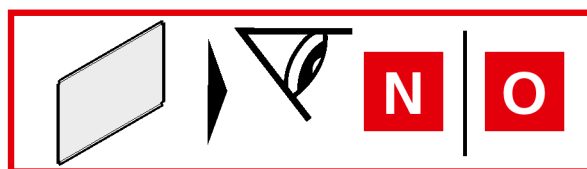
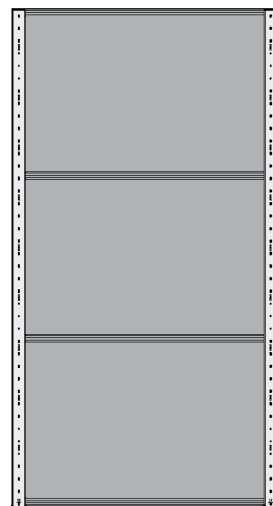
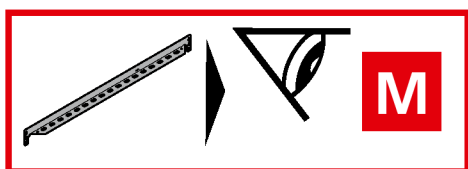
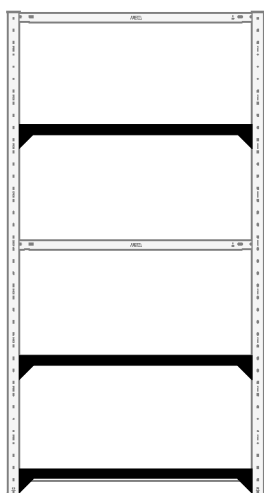
i

I

II

Typ	I	II
Kurzboden	100 kg	100 kg
V 100	100 kg	100 kg
MS 150-III	150 kg	150 kg
MS 200-III	200 kg	200 kg
MS 230-III	200 kg	230 kg
MS 330-III	200 kg	330 kg

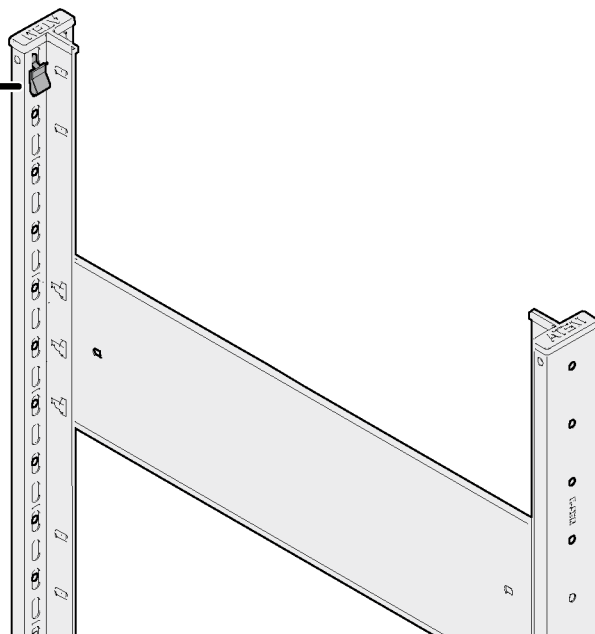
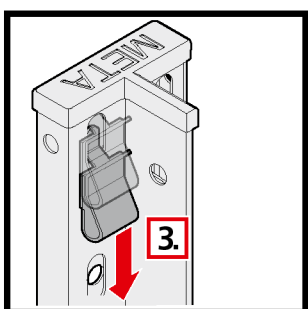
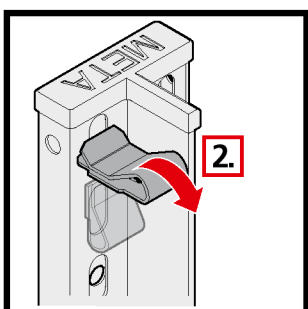
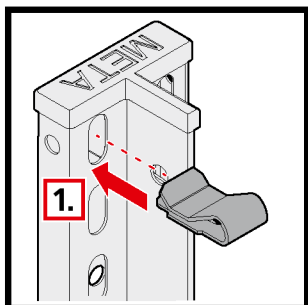
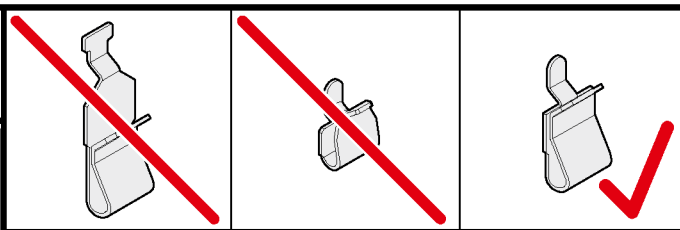
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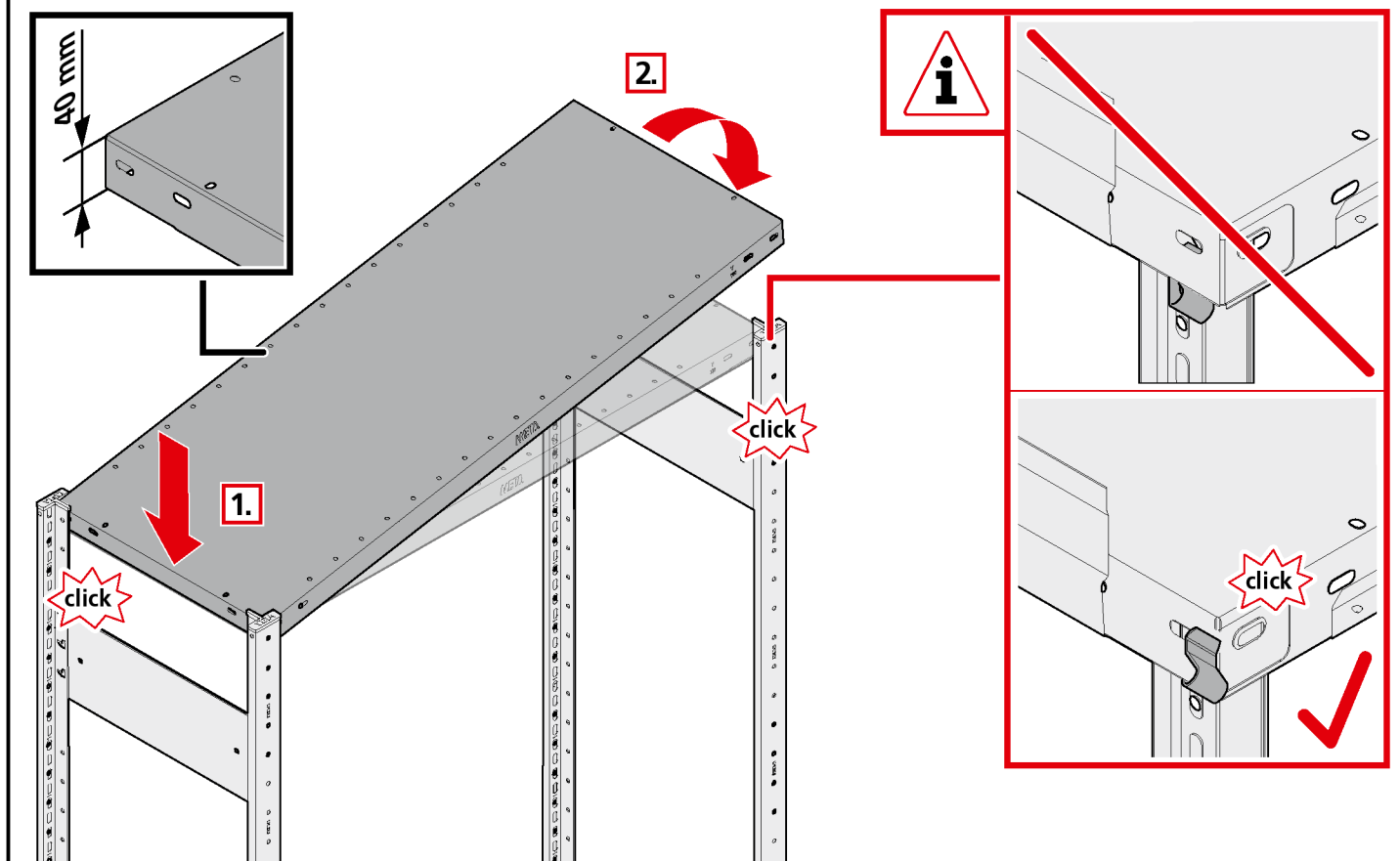
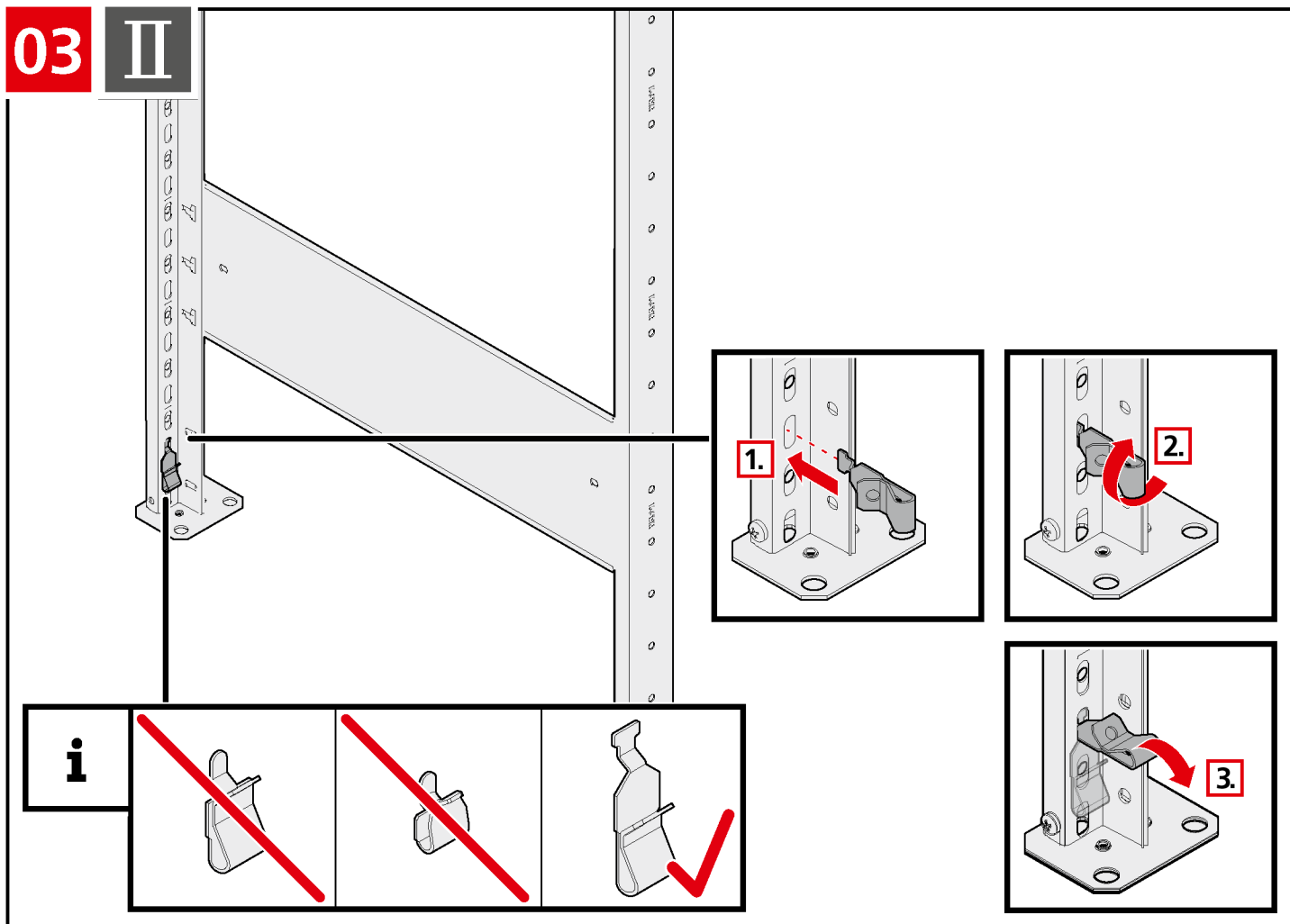


01

I

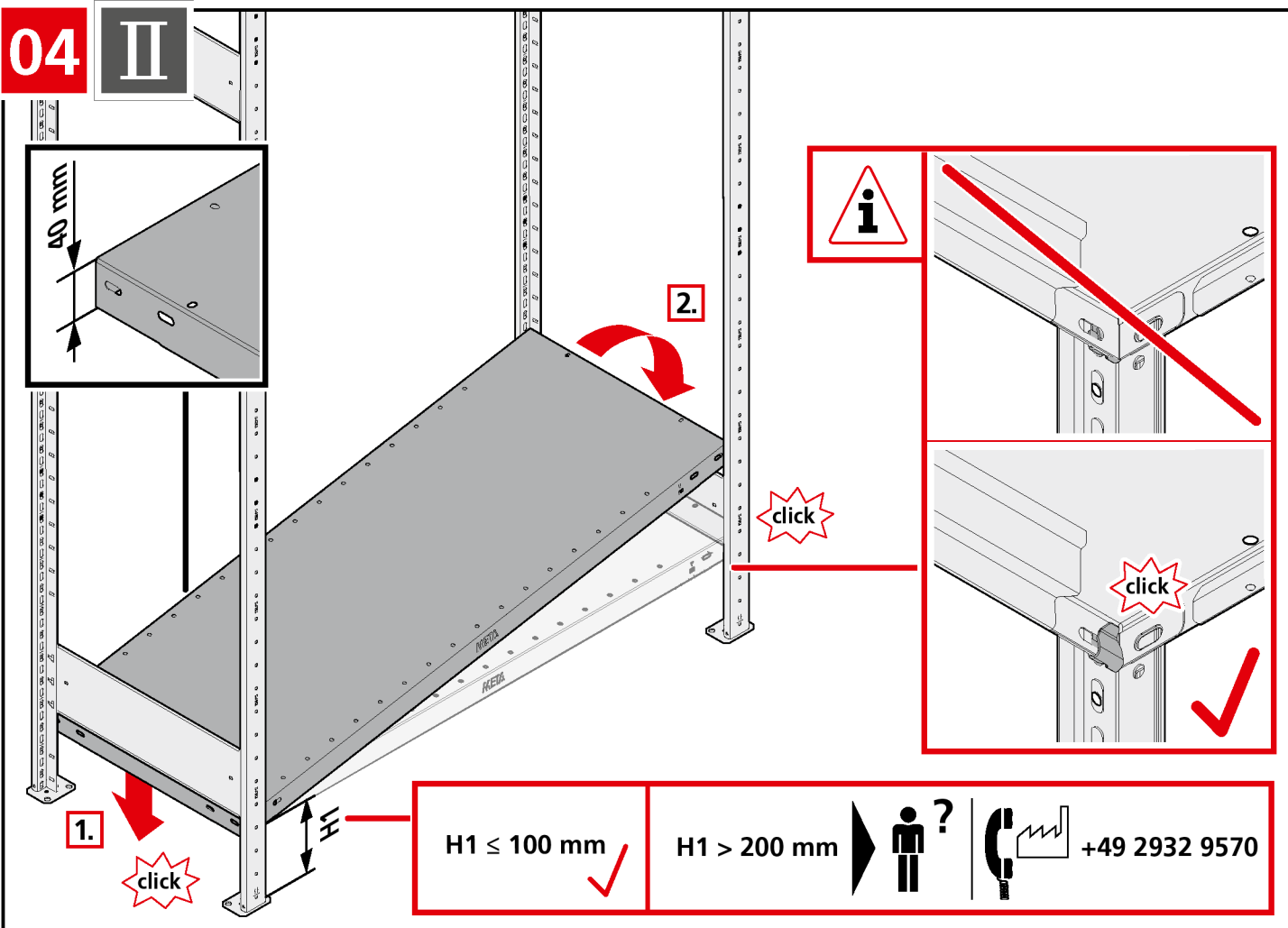
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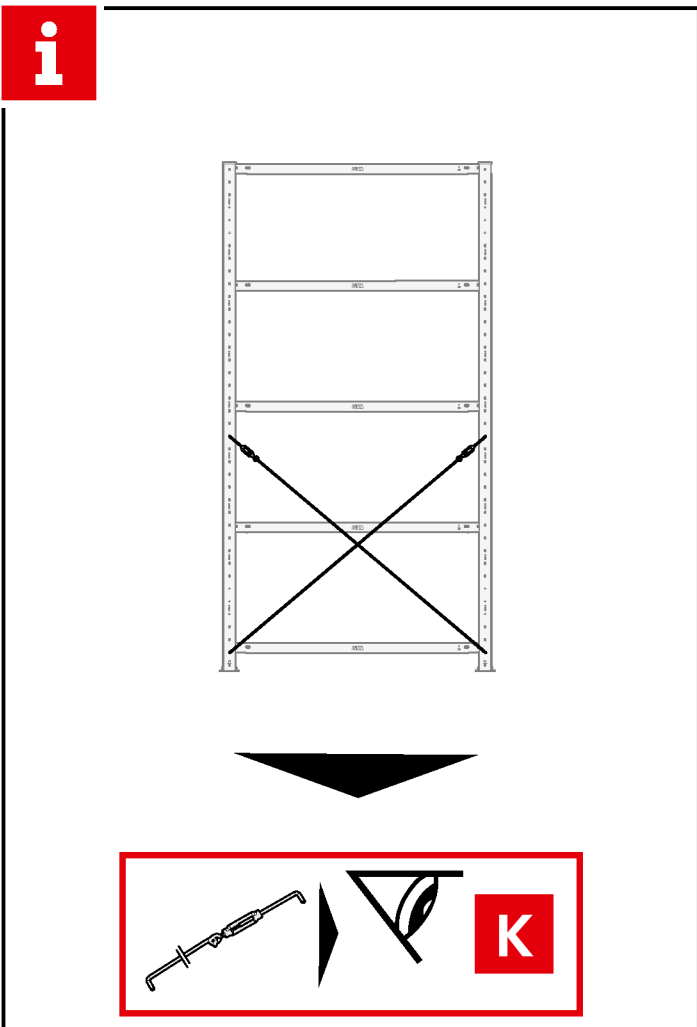
02**I****03****II**

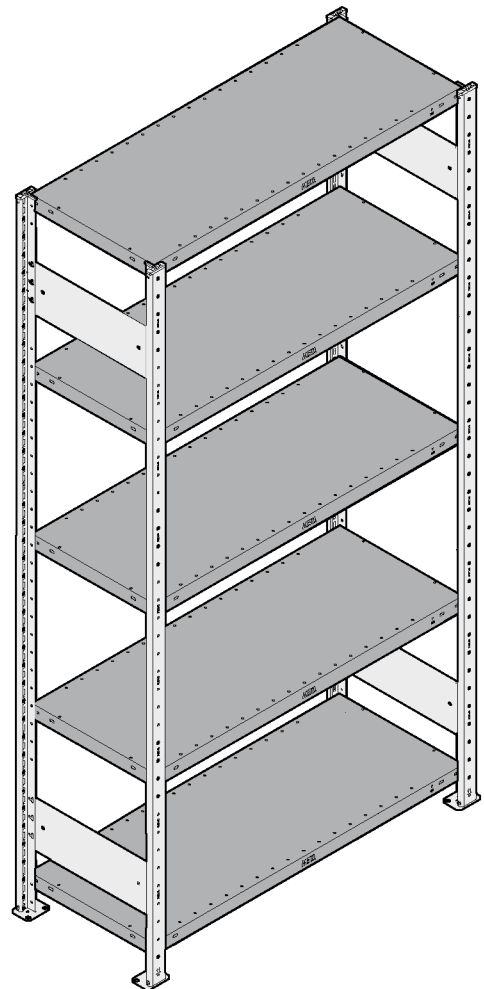
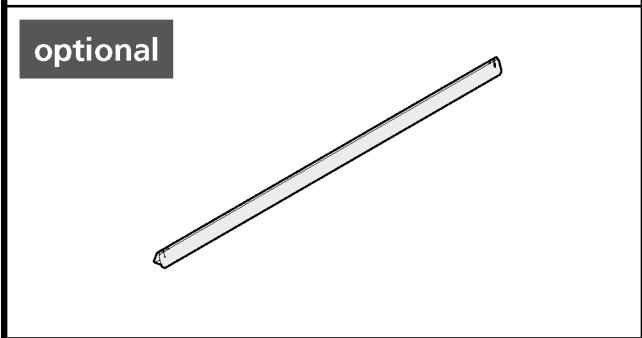
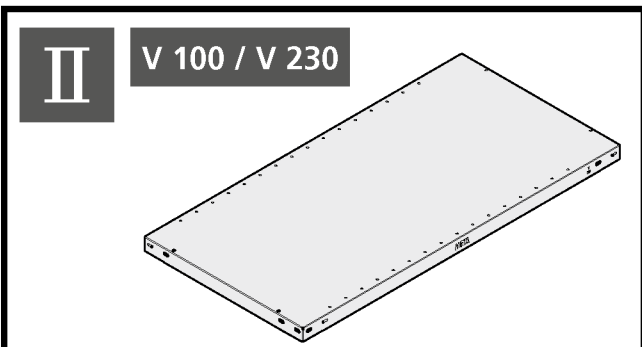
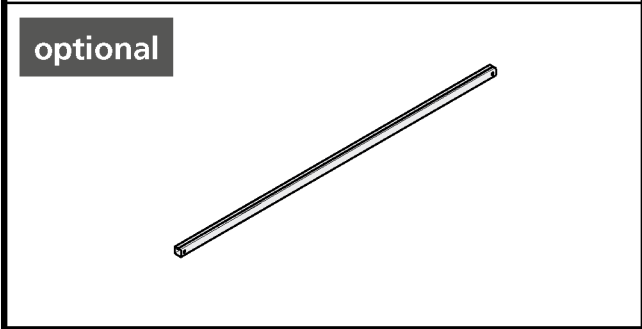
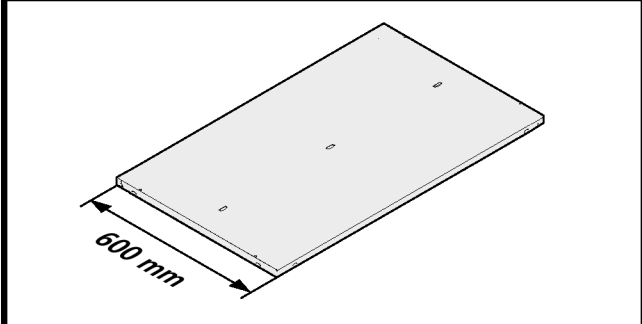
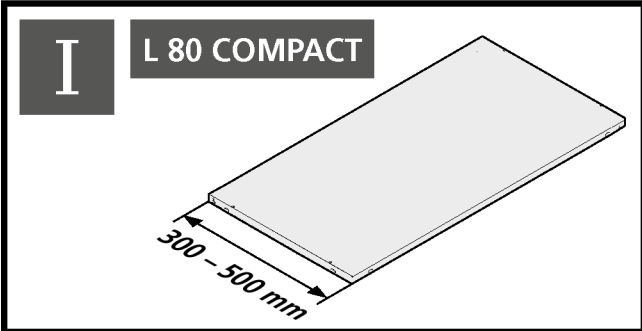
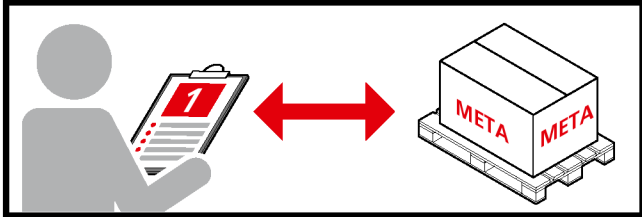
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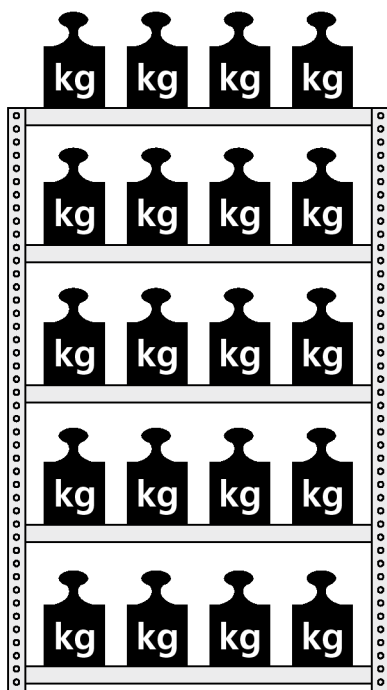
II



i







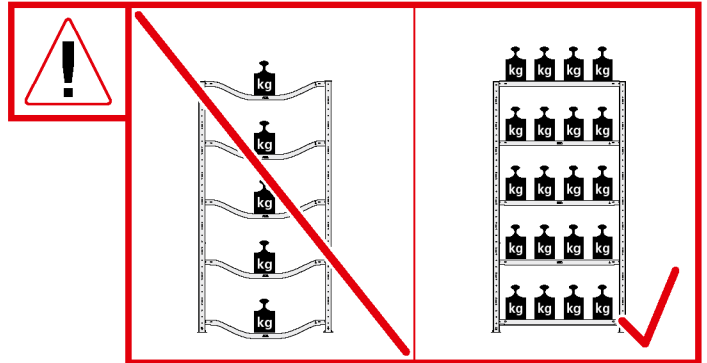
F (V230 ≤ 200 kg)

F

F

F

F

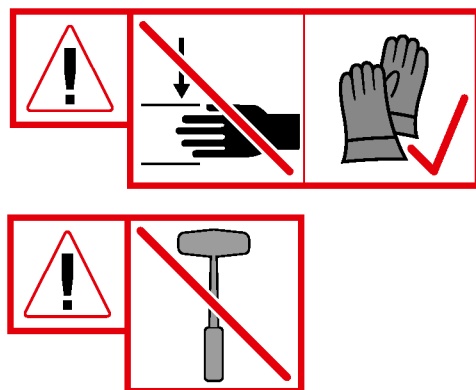
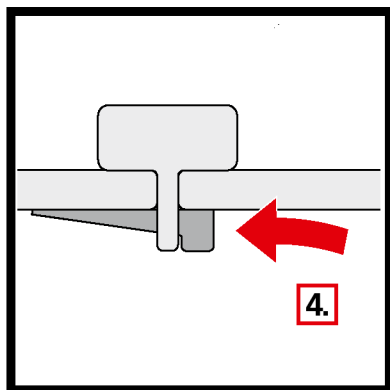
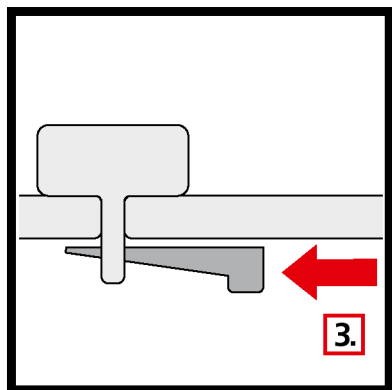
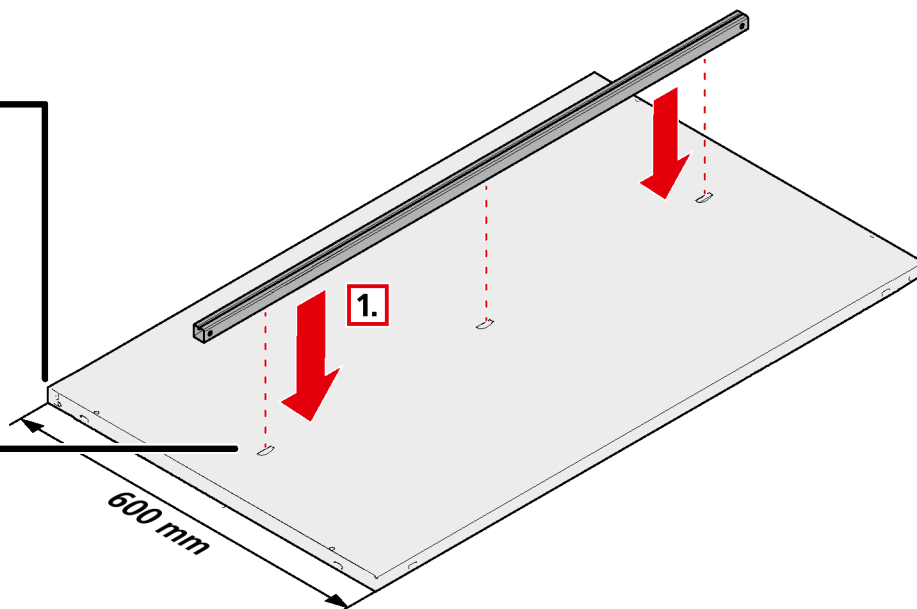
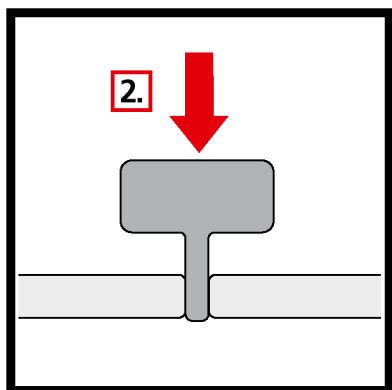
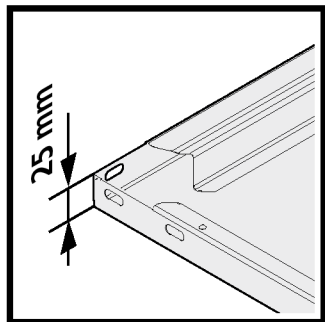


		F					
		L80 COMPACT	V100	V100 1 St.	V230	V230 1 St.	KURZBODEN
FL x d (mm)	750 x 300	80 kg					100 kg
	750 x 400	80 kg					100 kg
	750 x 500	80 kg					100 kg
	750 x 600	80 kg					100 kg
	1000 x 300	80 kg	100 kg	100 kg	230 kg	230 kg	
	1000 x 400	80 kg	100 kg	100 kg	230 kg	230 kg	
	1000 x 500	80 kg	100 kg	100 kg	230 kg	230 kg	
	1000 x 600	80 kg	100 kg	100 kg	230 kg	230 kg	
	1250 x 300	80 kg					
	1250 x 400	80 kg					
	1250 x 500	80 kg					
	1250 x 600	80 kg					

01

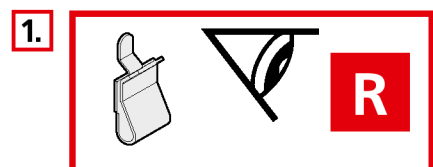
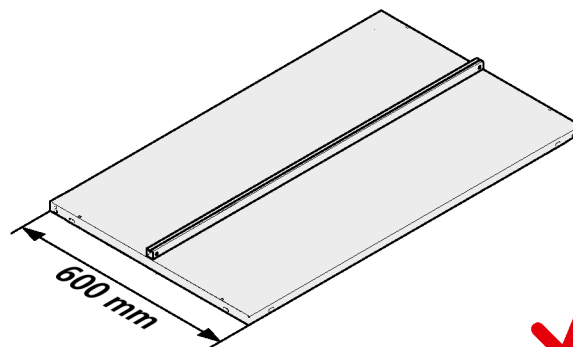
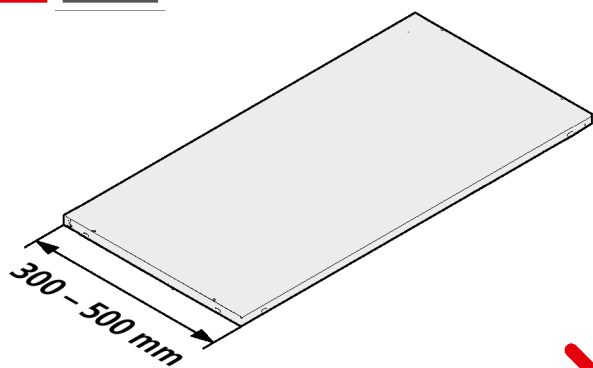
I

optional



02

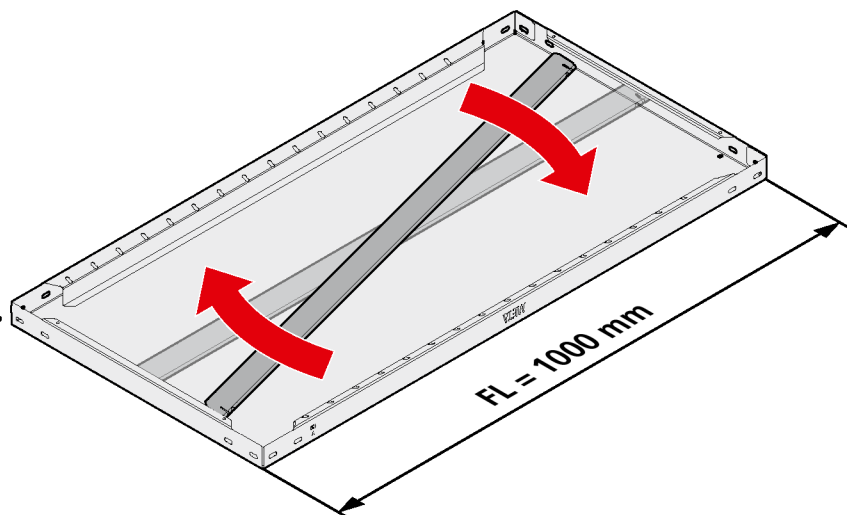
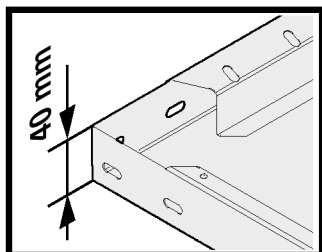
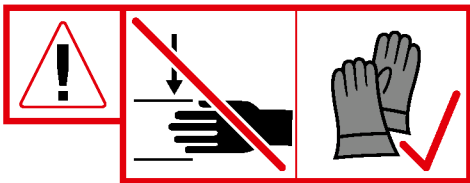
I



01

II

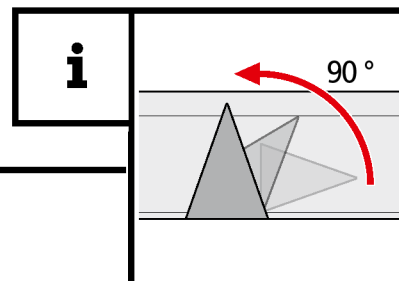
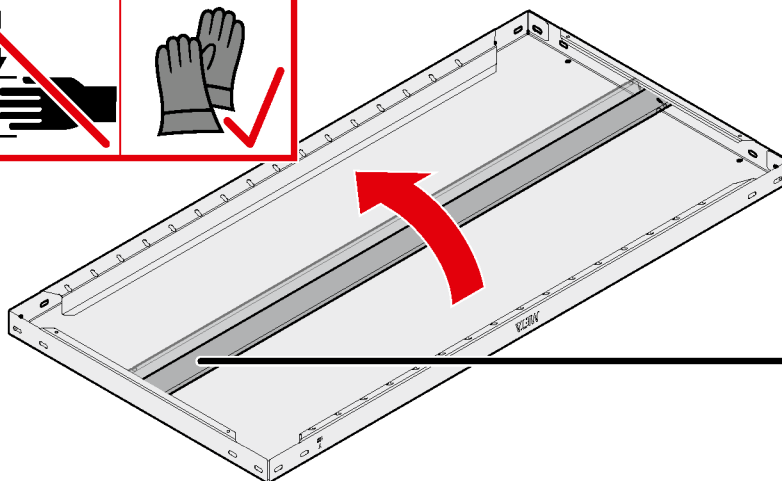
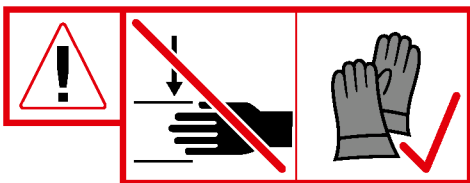
optional



02

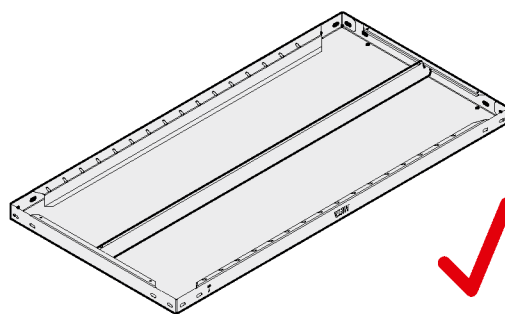
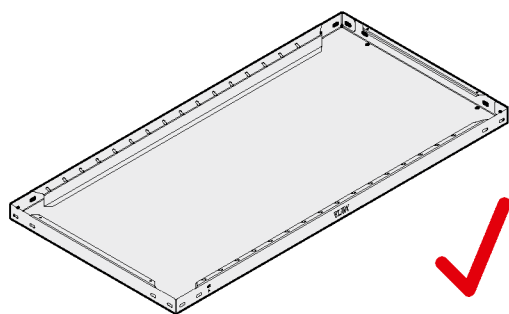
II

optional



03

II



1.

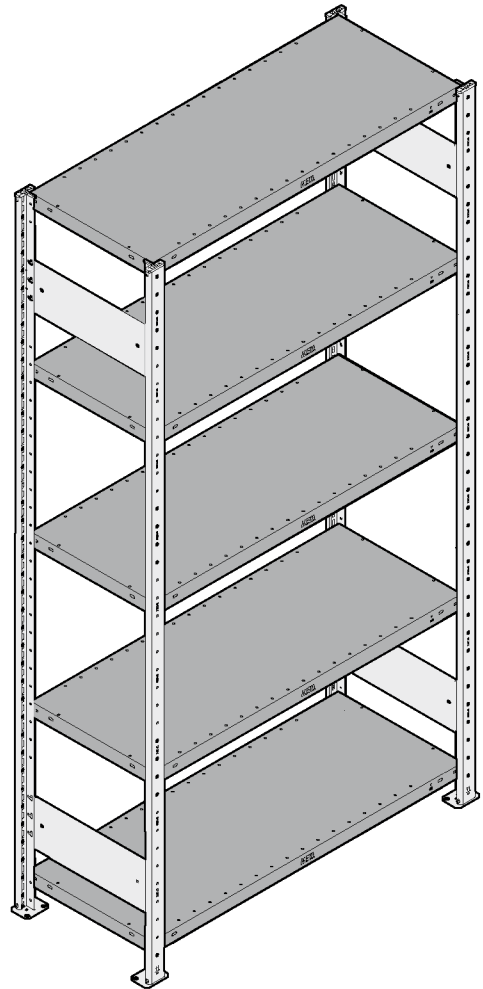
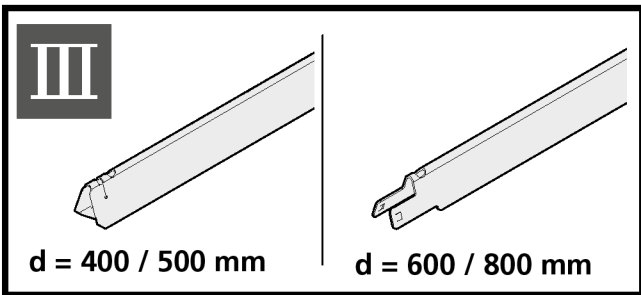
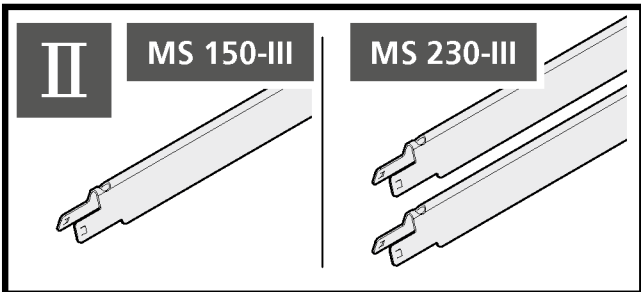
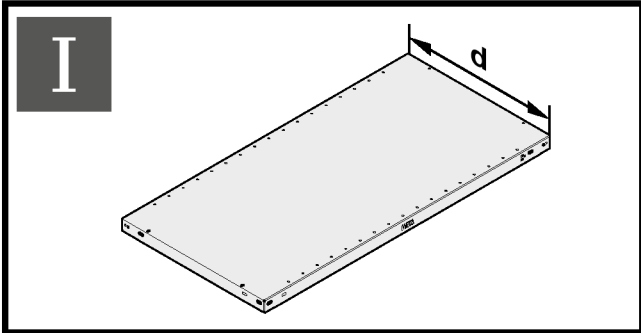
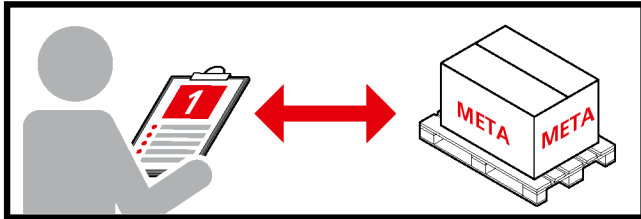




MS 150-III

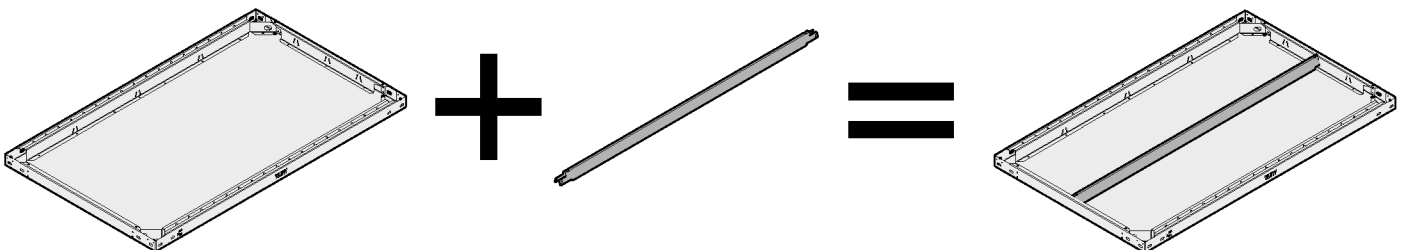
MS 230-III

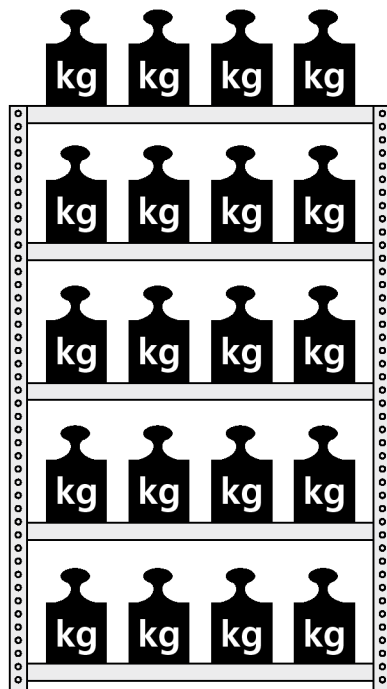
MS 330-III



MS 230-III

MS 330-III





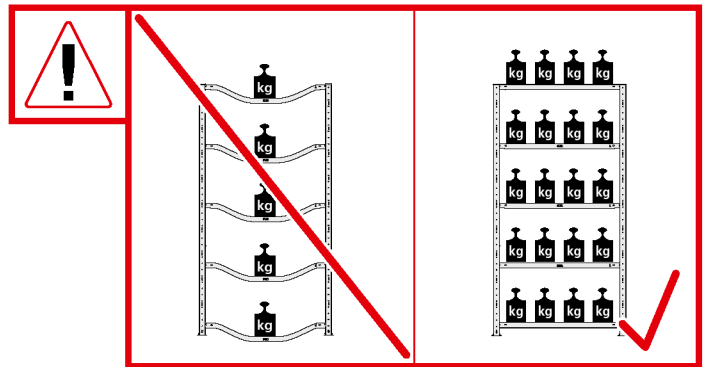
F (MS230-III / MS330-III ≤ 200 kg)

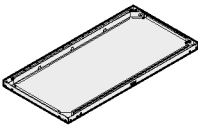
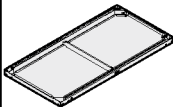
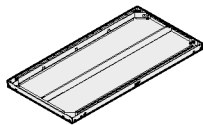
F

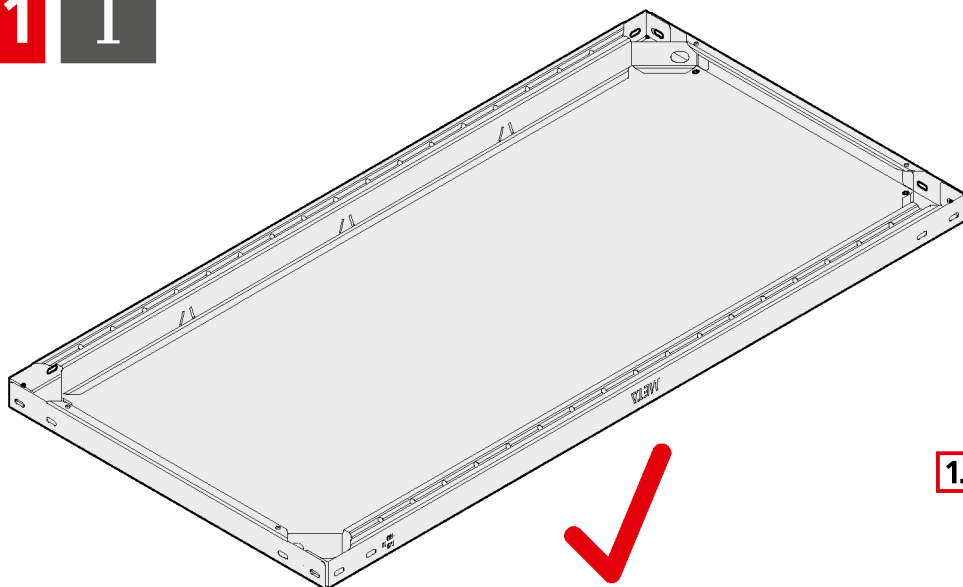
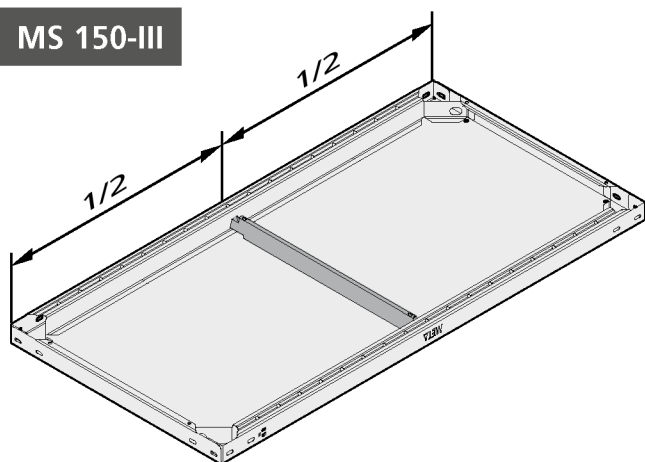
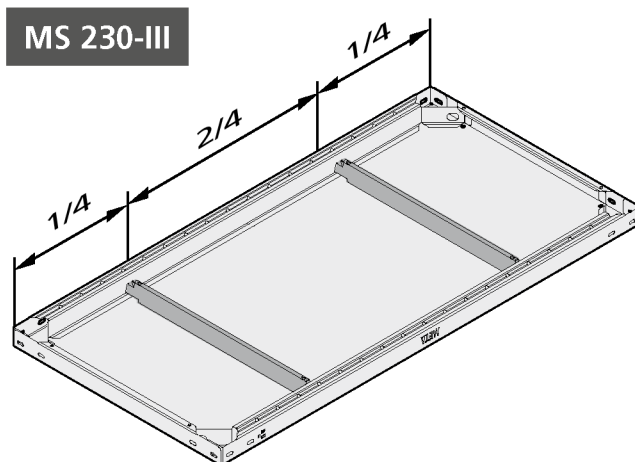
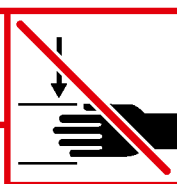
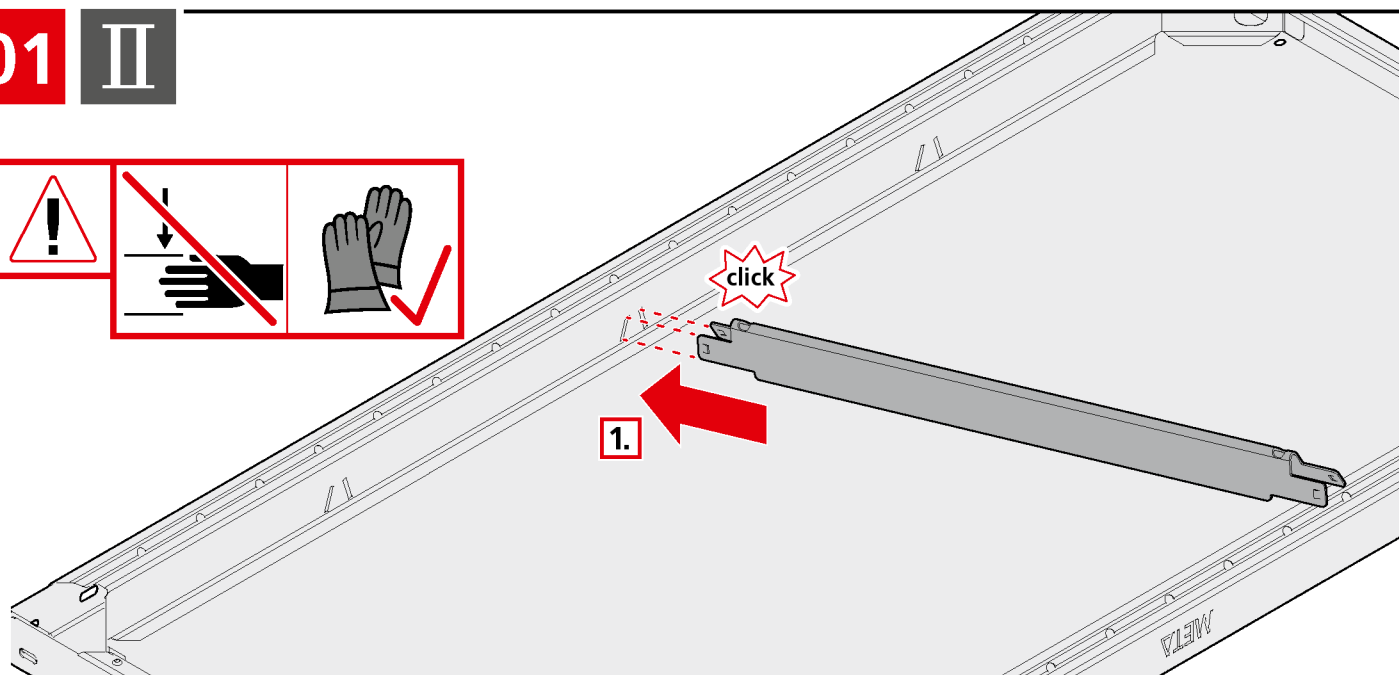
F

F

F

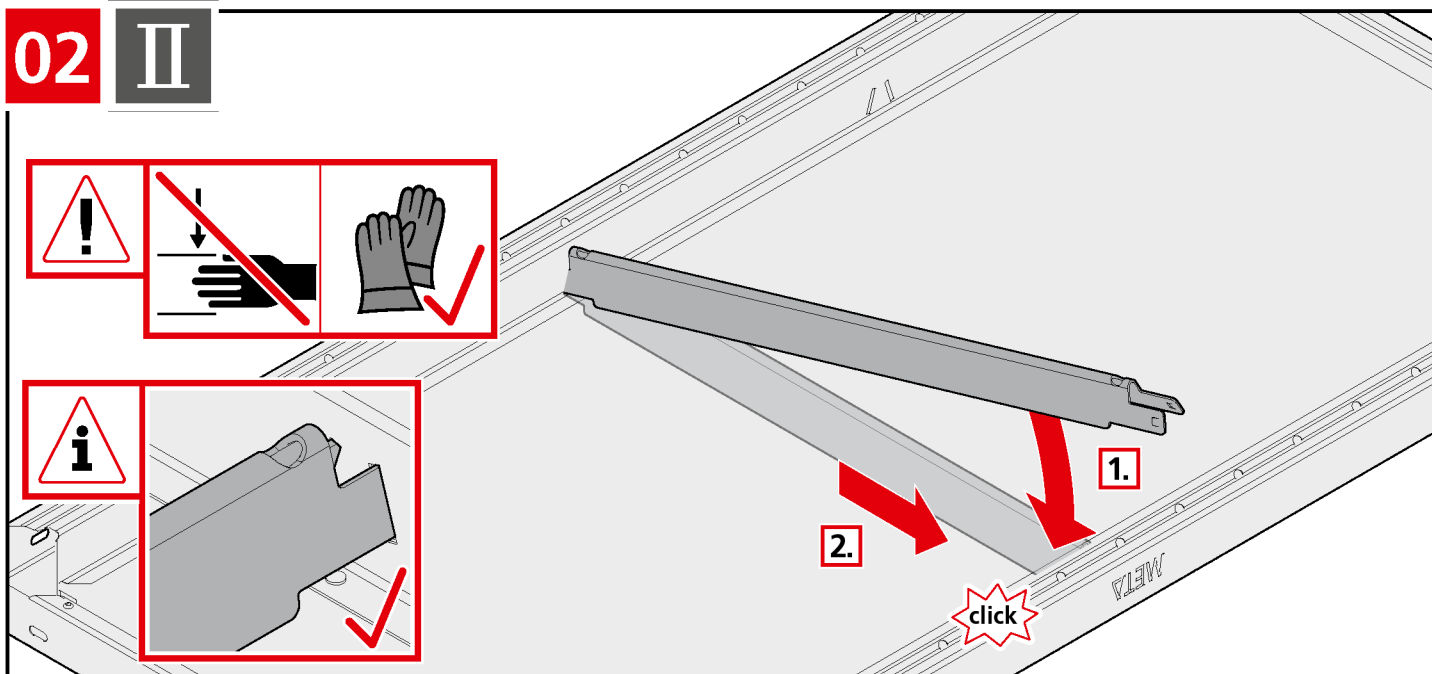


		I		II		III	
		F					
							
		MS 150-III	MS 230-III	MS 150-III	MS 230-III	MS 150-III	MS 330-III
L x d (mm)	1000 x 300	150 kg	230 kg	150 kg	230 kg	-	-
	1000 x 400	150 kg	230 kg	150 kg	230 kg	150 kg	330 kg
	1000 x 500	150 kg	230 kg	150 kg	230 kg	150 kg	330 kg
	1000 x 600	150 kg	230 kg	150 kg	230 kg	150 kg	330 kg
	1000 x 800	-	230 kg	-	230 kg	-	330 kg
	1300 x 300	-	230 kg	-	230 kg	-	-
	1300 x 400	-	230 kg	-	230 kg	-	330 kg
	1300 x 500	-	230 kg	-	230 kg	-	330 kg
	1300 x 600	-	230 kg	-	230 kg	-	330 kg
	1300 x 800	-	230 kg	-	230 kg	-	330 kg

01**I****1.****R****i****II****MS 150-III****MS 230-III****01****II****1.****click**

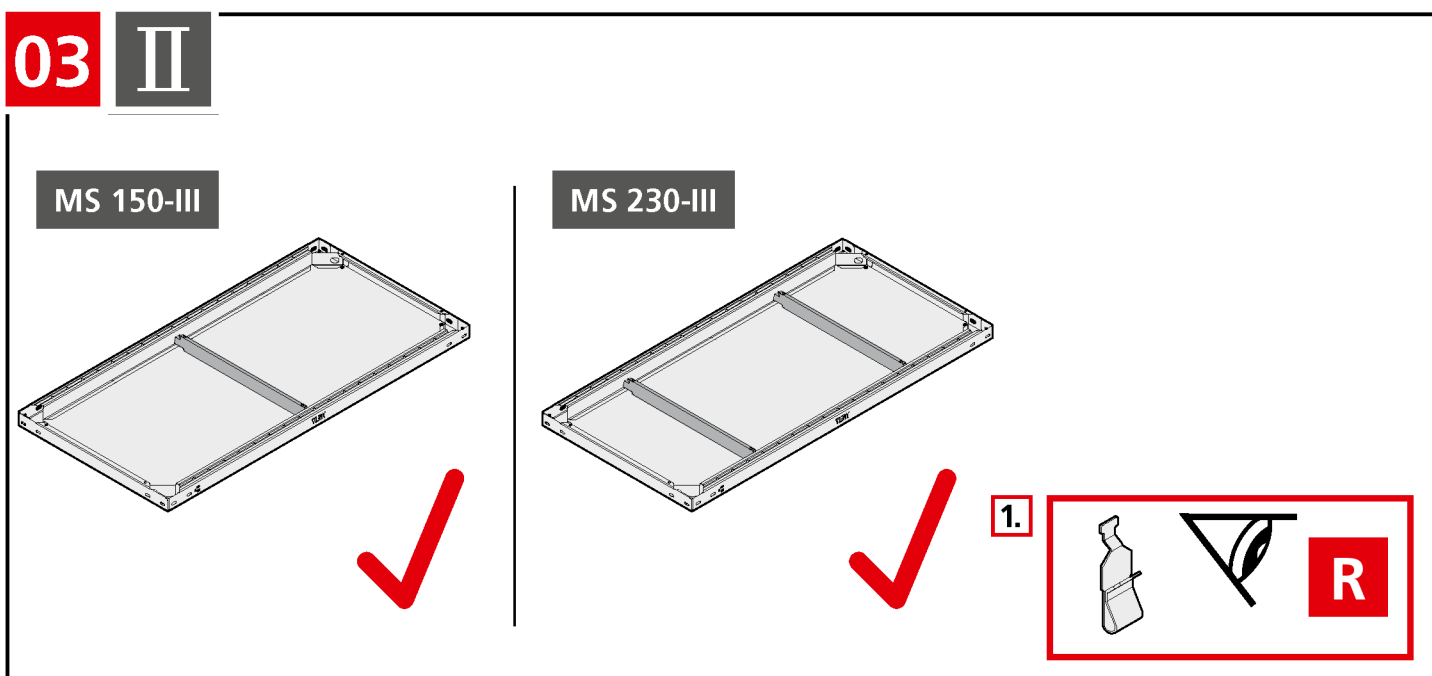
02

II



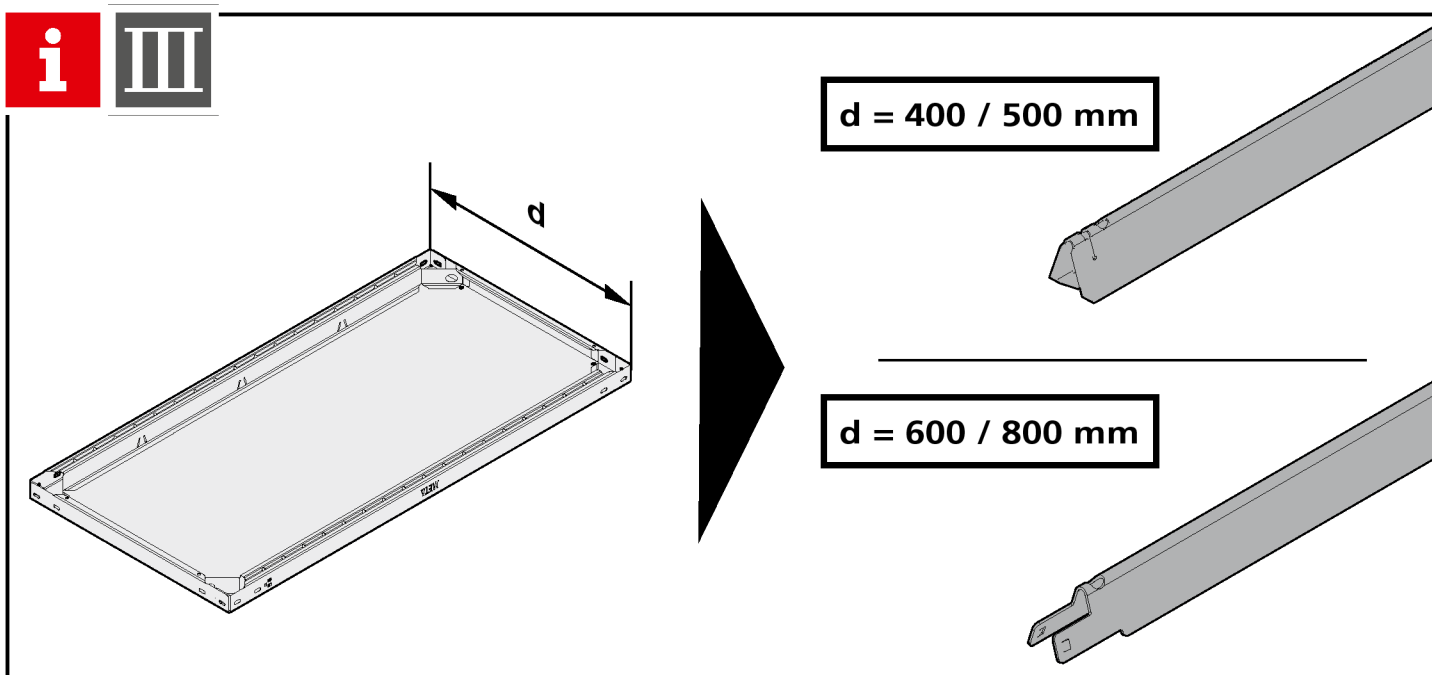
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II



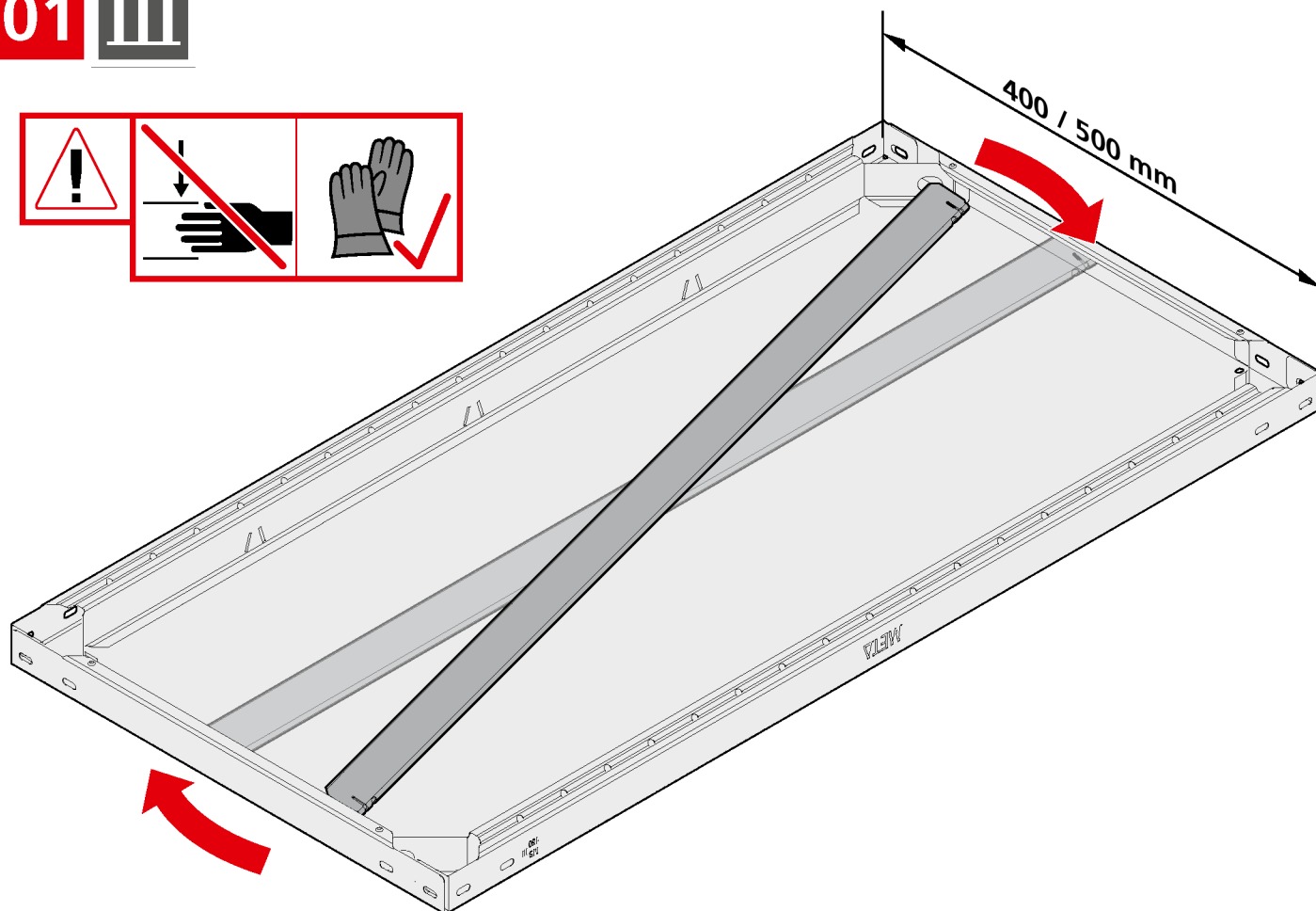
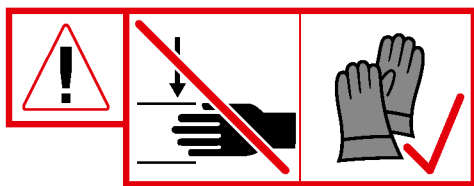
i

III



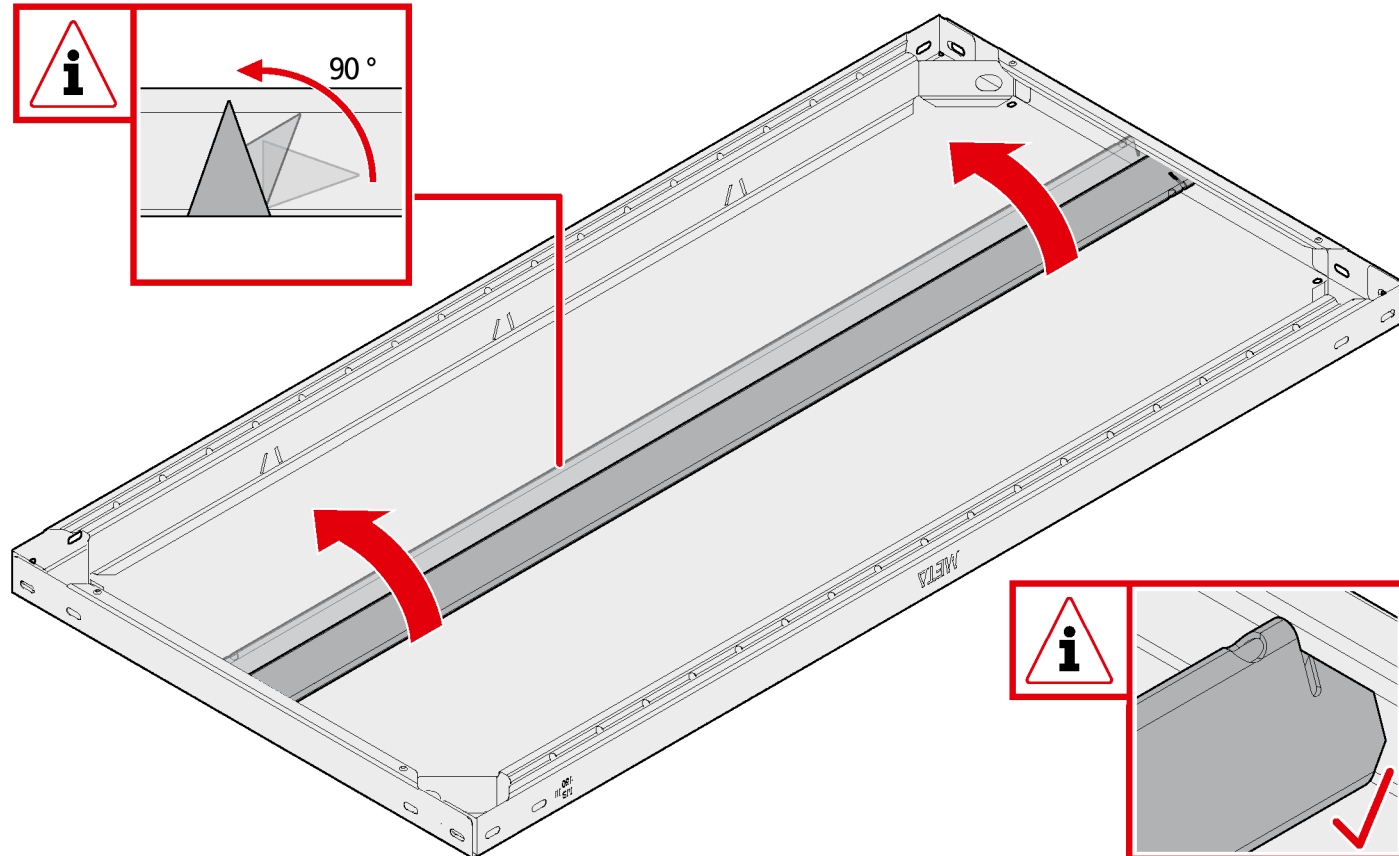
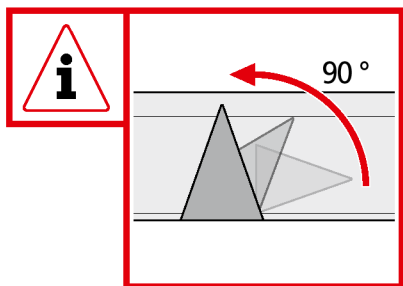
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III



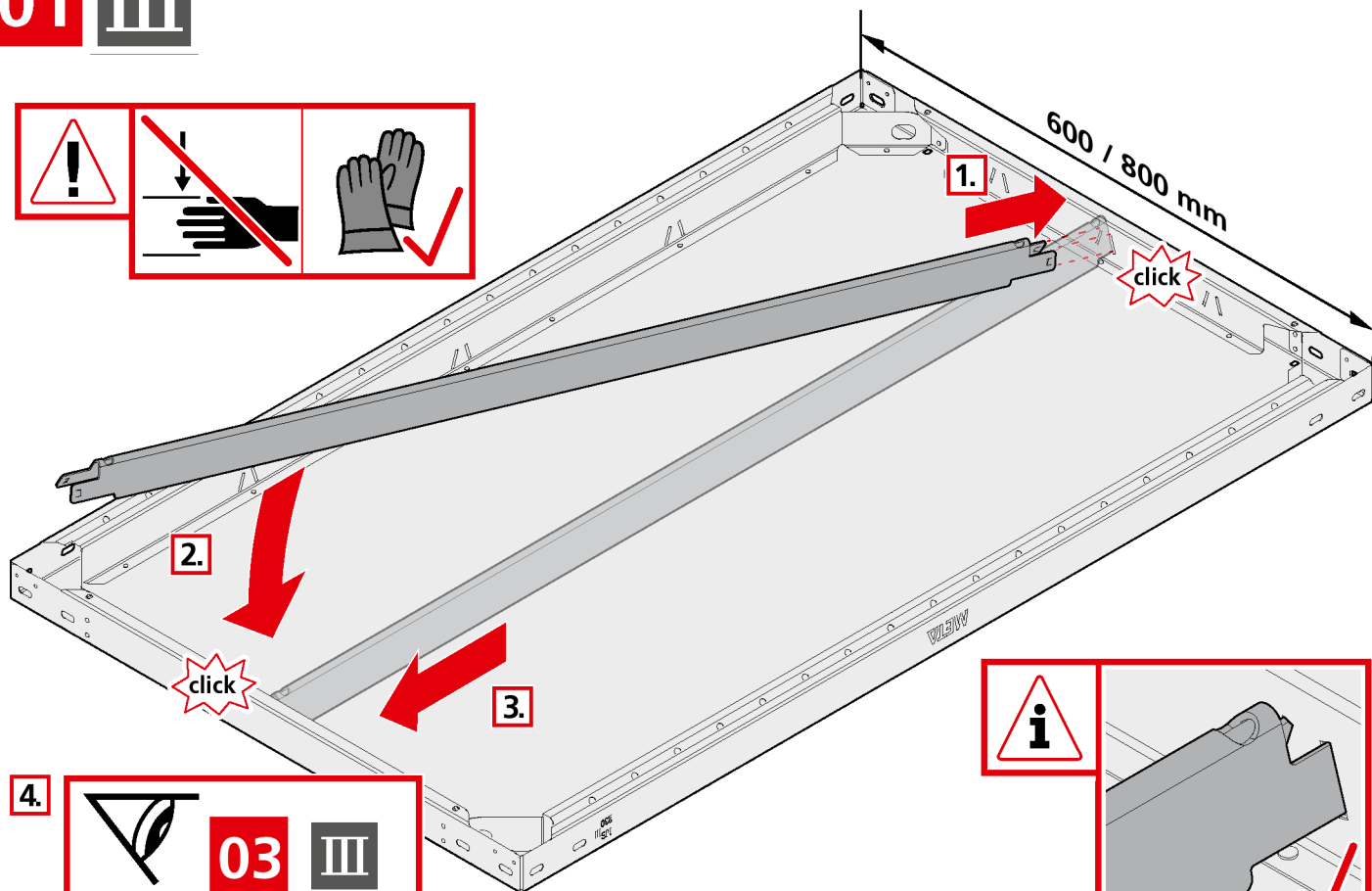
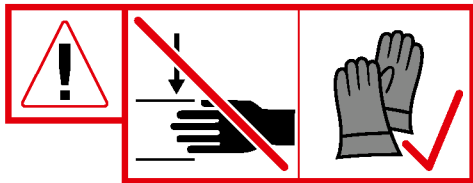
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III



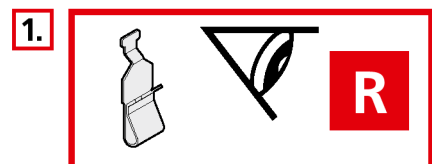
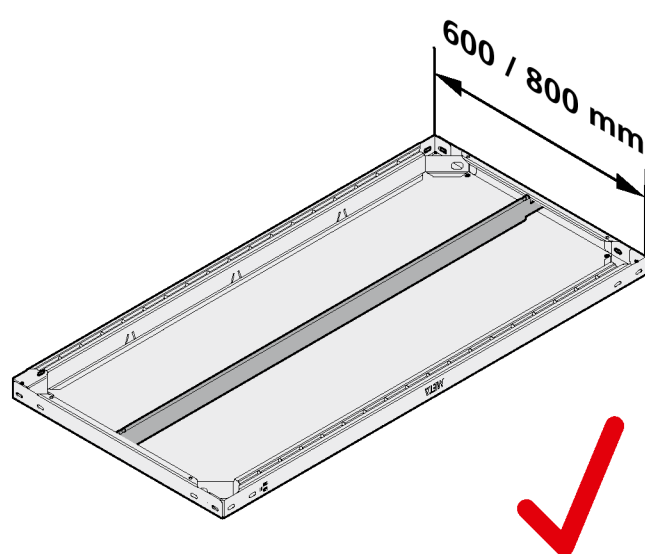
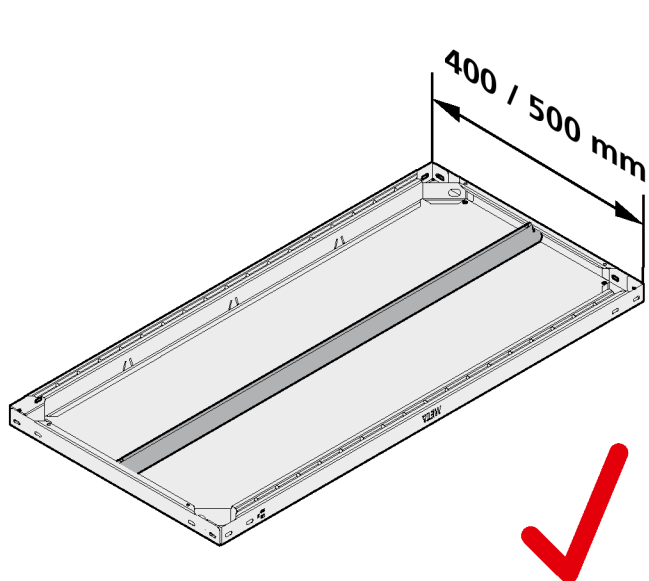
01

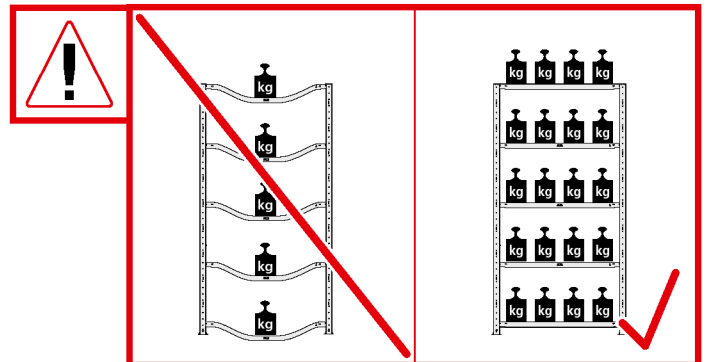
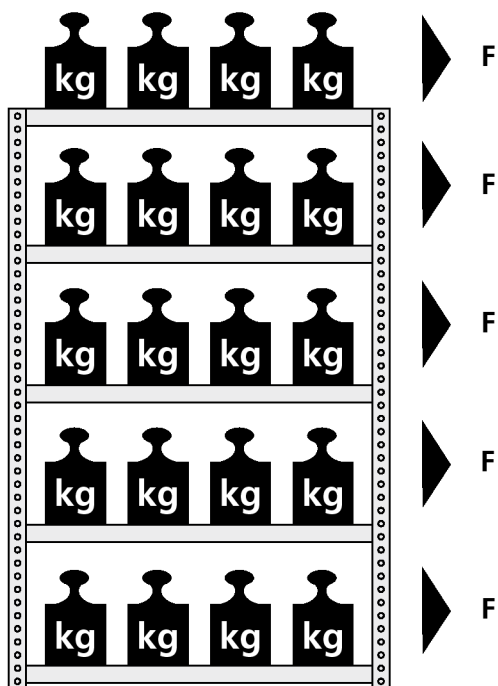
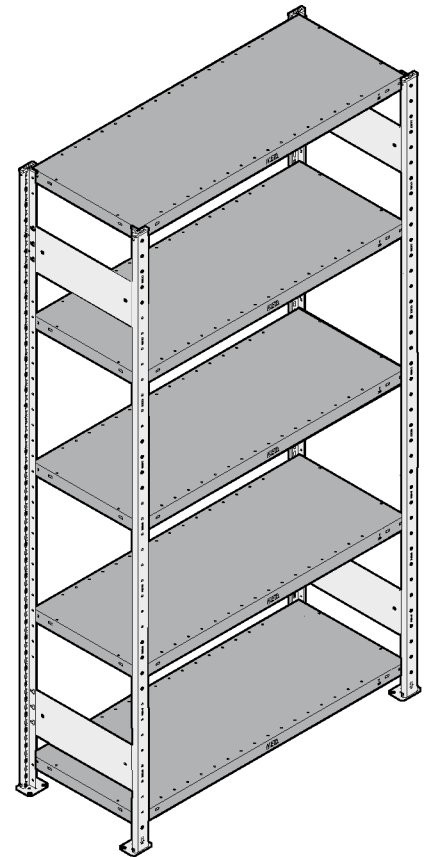
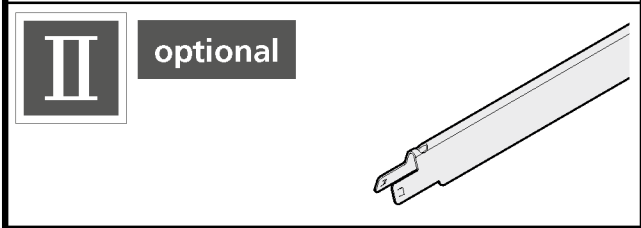
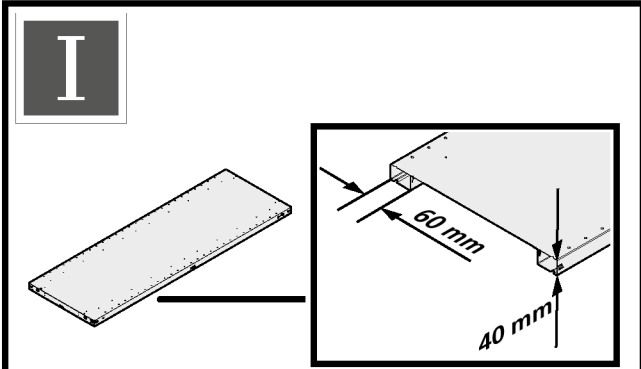
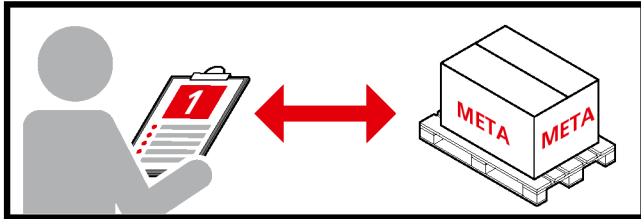
III



03

III

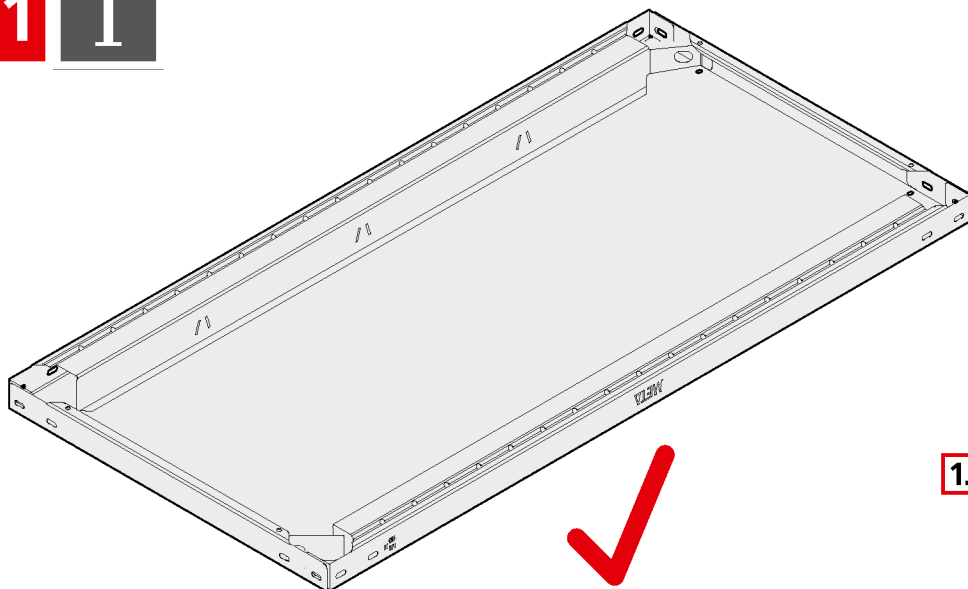




		F	
L x d (mm)	1500 x 400	200 kg	
	1500 x 500		
	1500 x 600		
	1700 x 400		
	1700 x 500		
	1700 x 600		

01

I



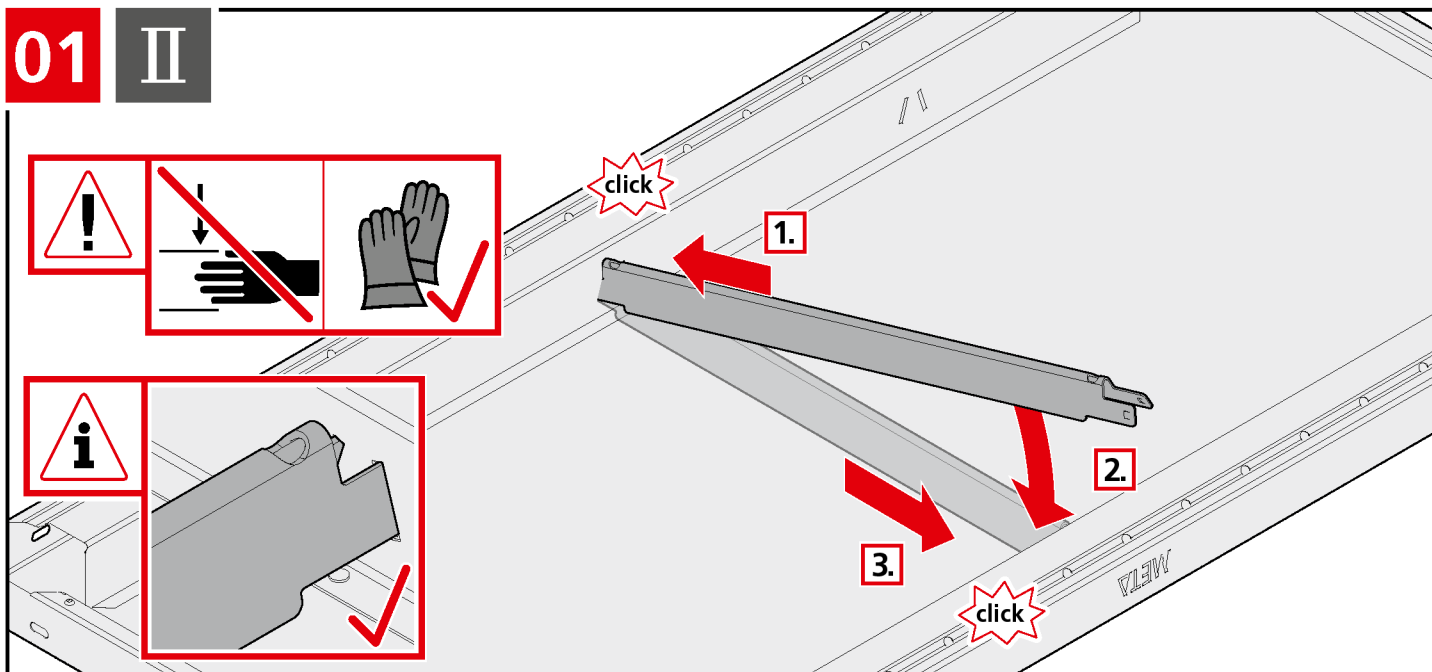
1.



R

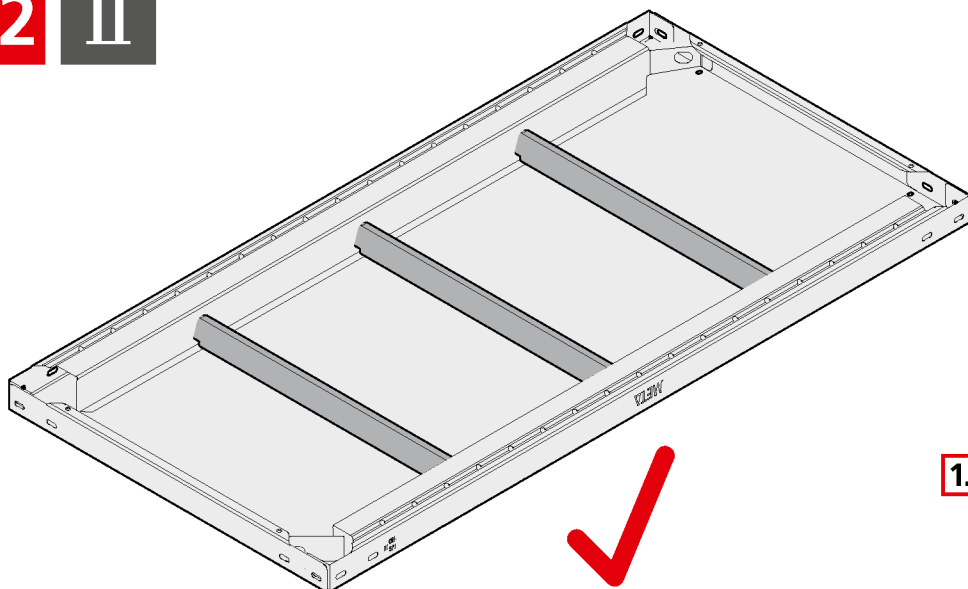
01

II



02

II



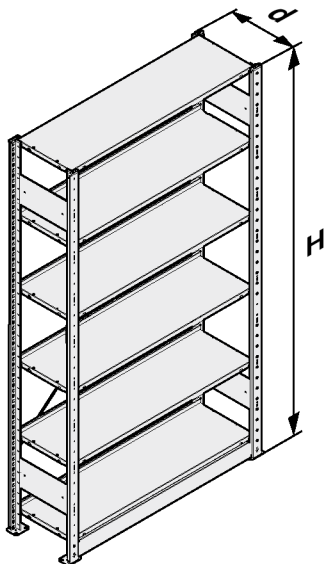
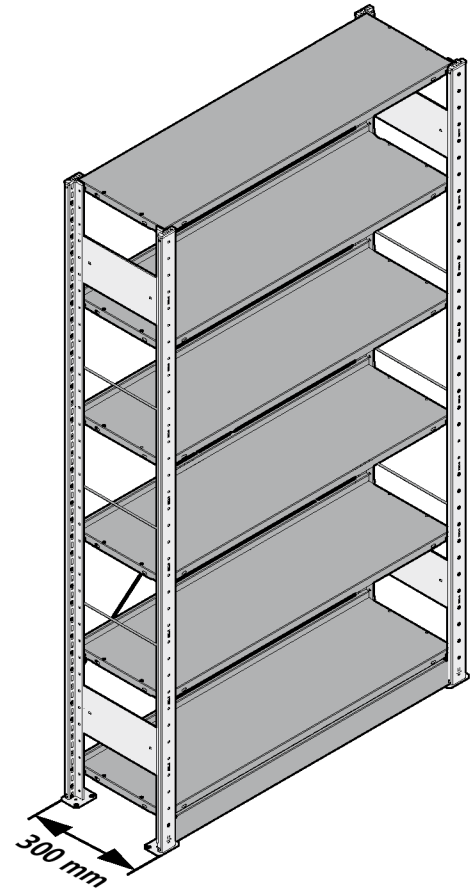
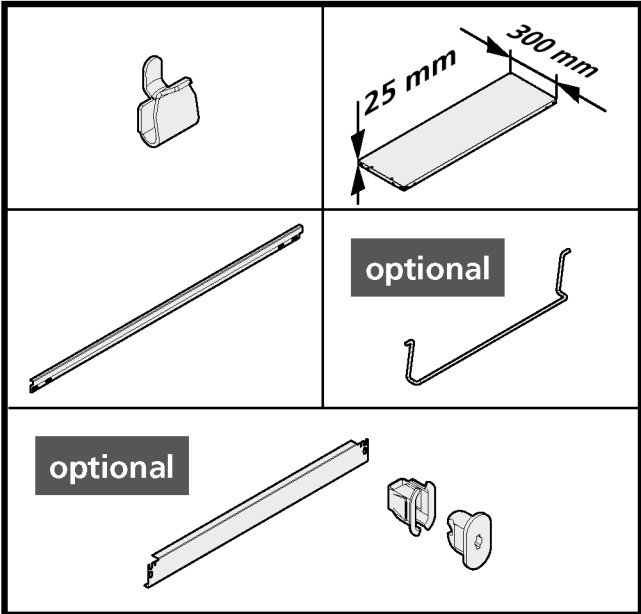
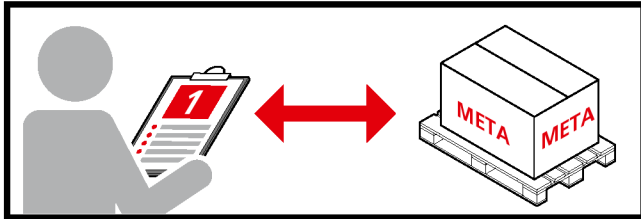
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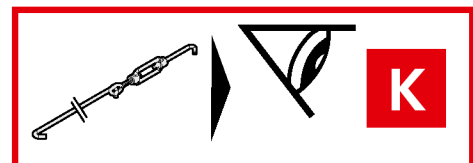
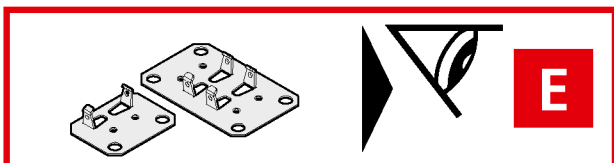
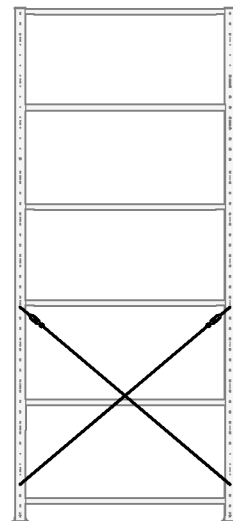
R

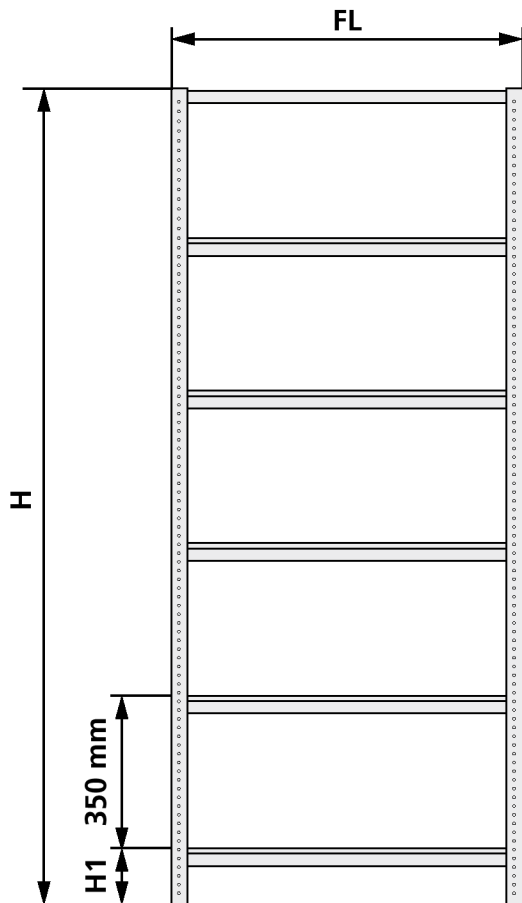
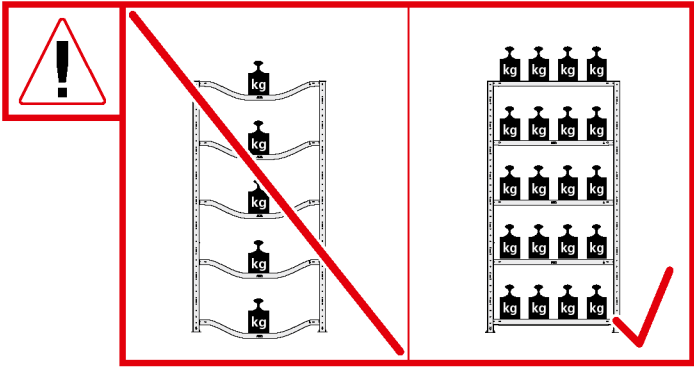


COMPACT



$$H:d \geq 5:1$$



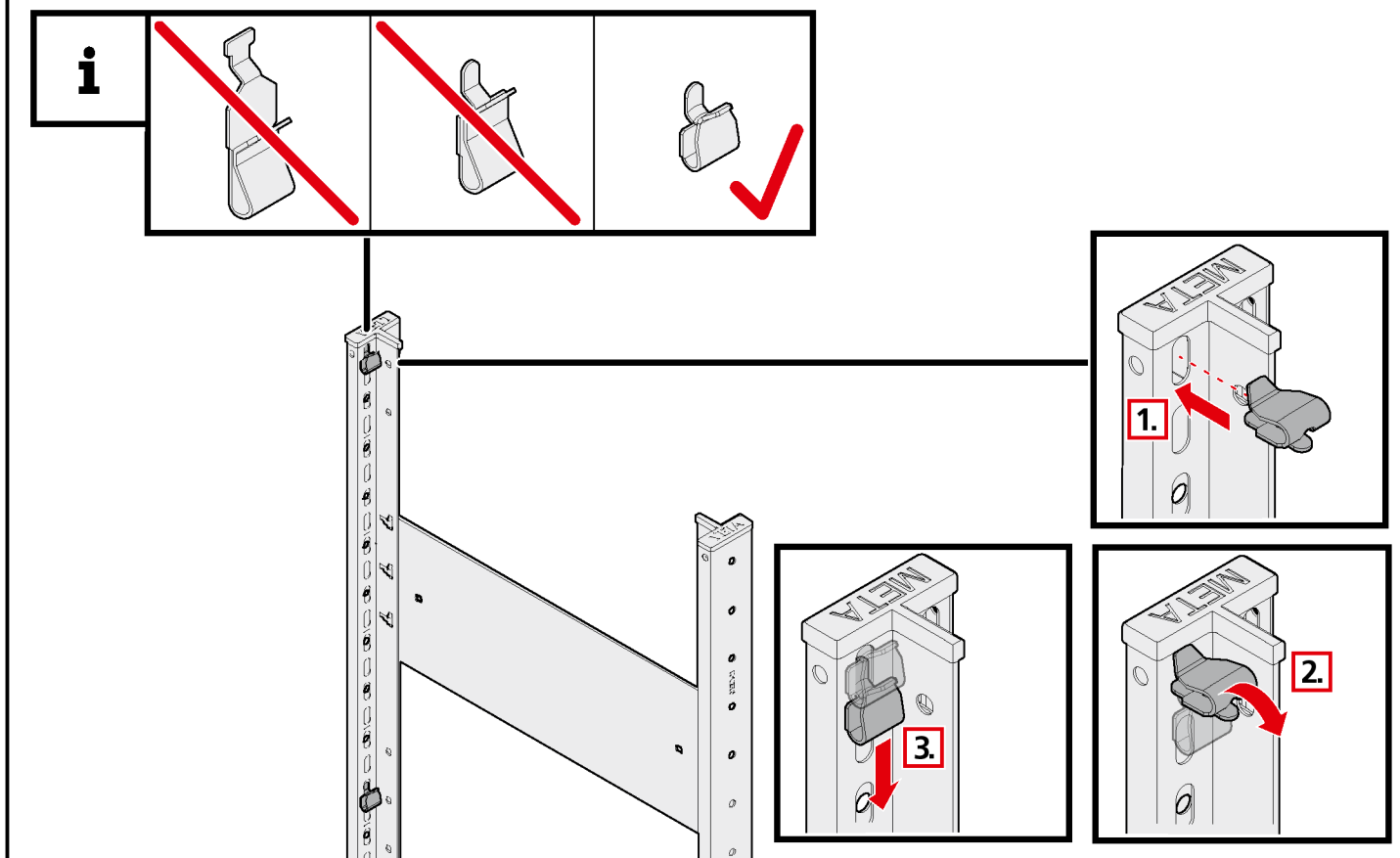


$\Sigma F \leq 900 \text{ kg}$

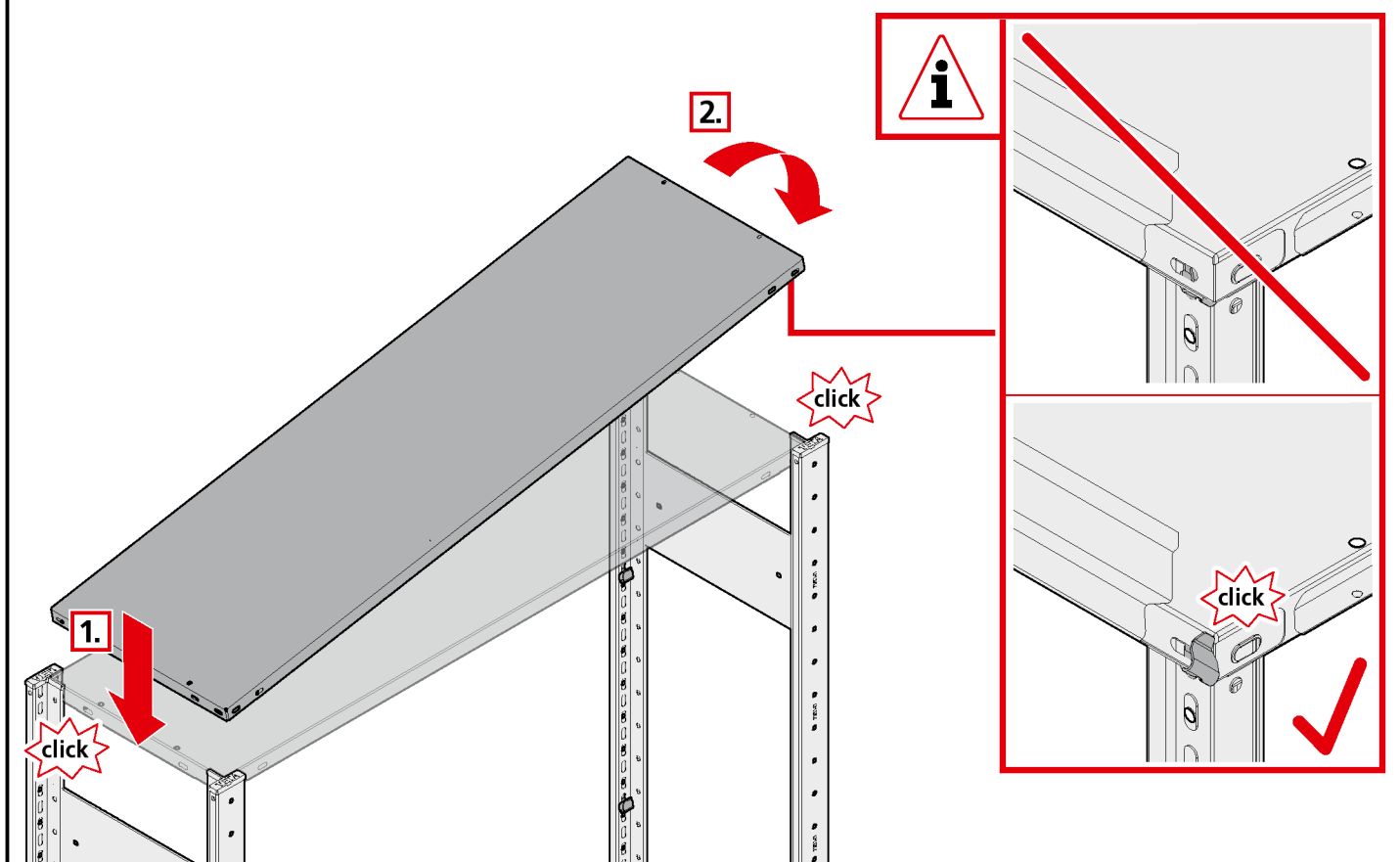
FL	F
750 mm 1000 mm	80 kg
1250 mm	

H	H1	
1850 mm	100 mm	5 x
2200 mm	100 mm	6 x
2500 mm	50 mm	7 x
2550 mm	100 mm	7 x

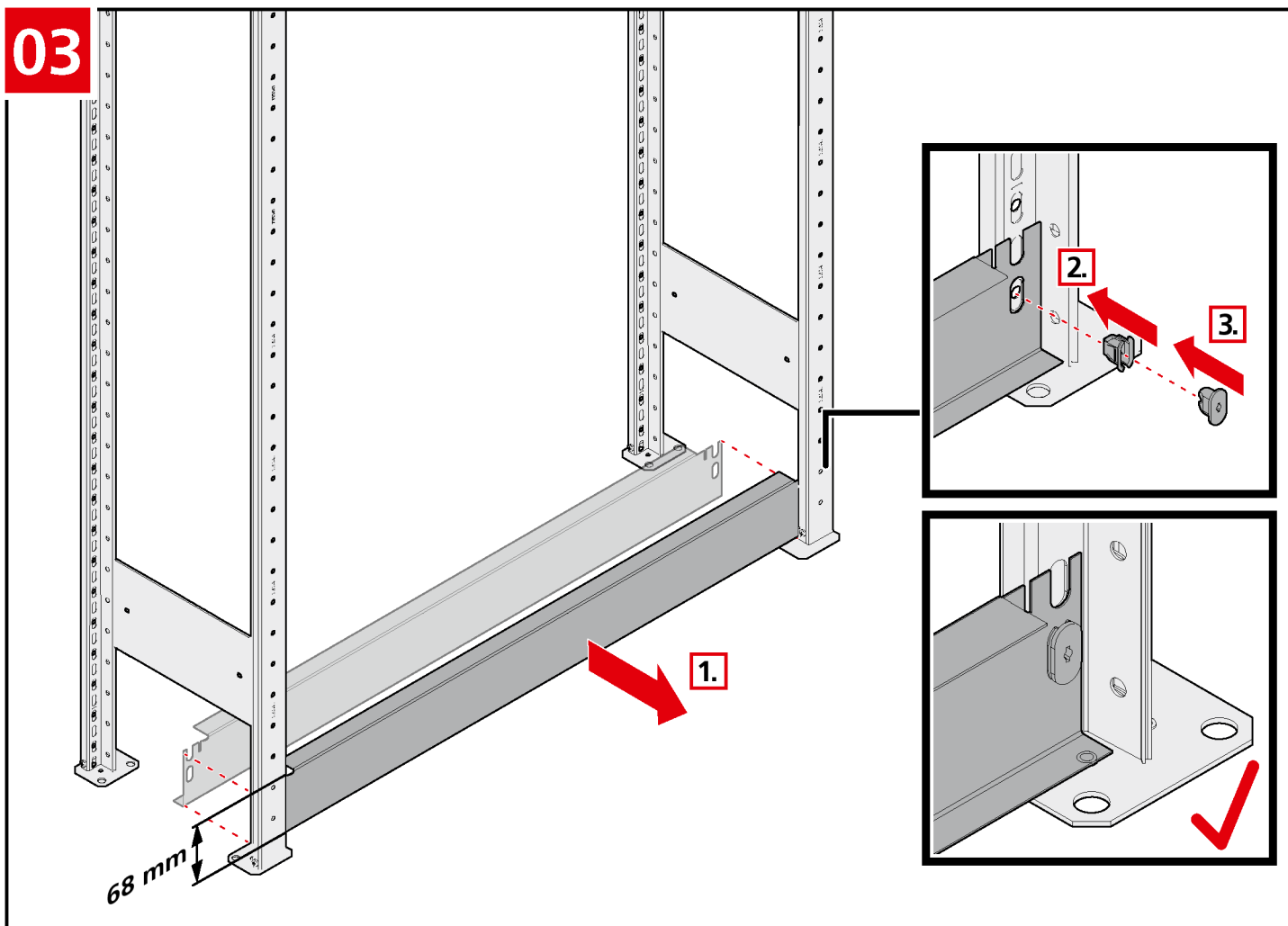
01



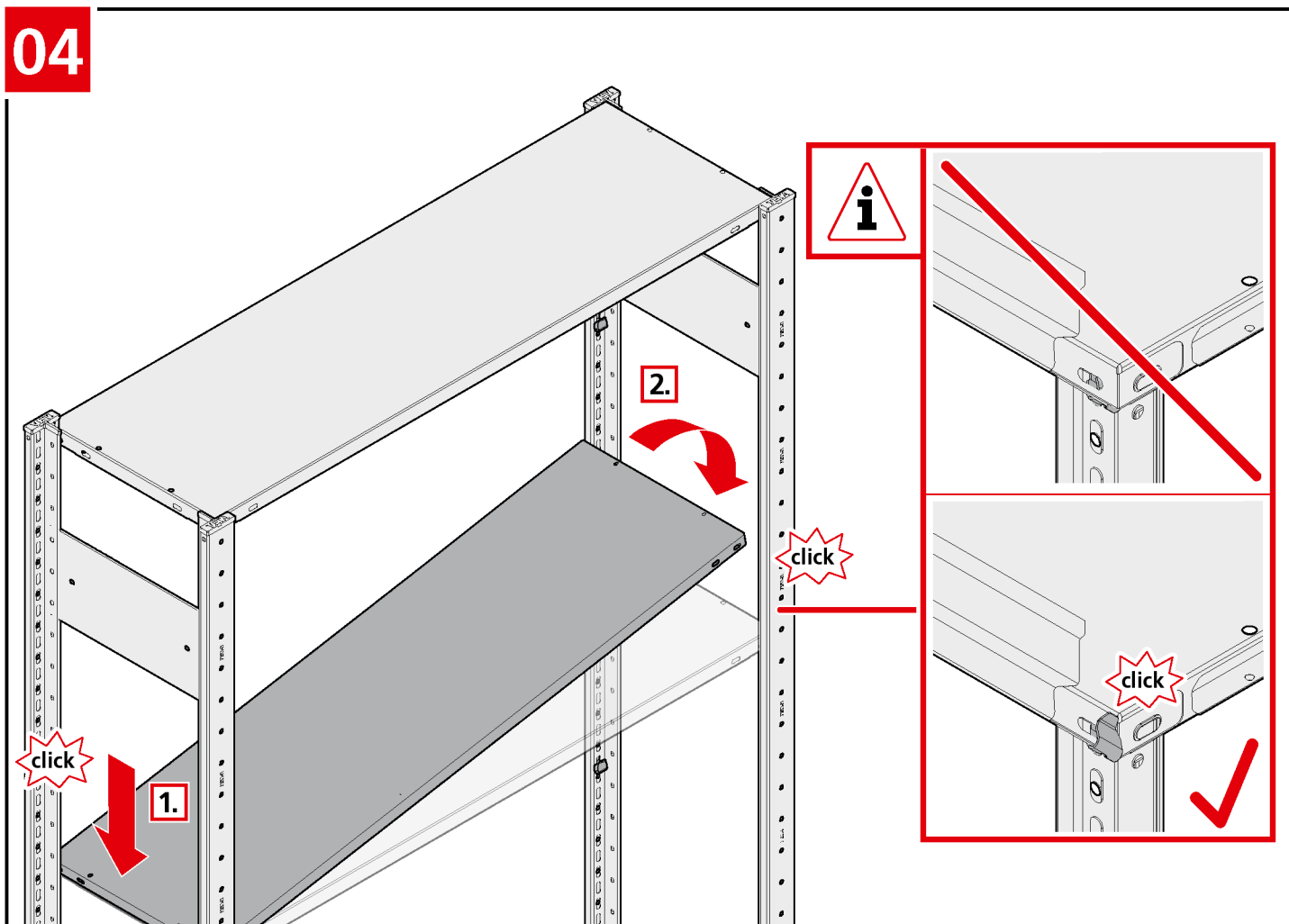
02



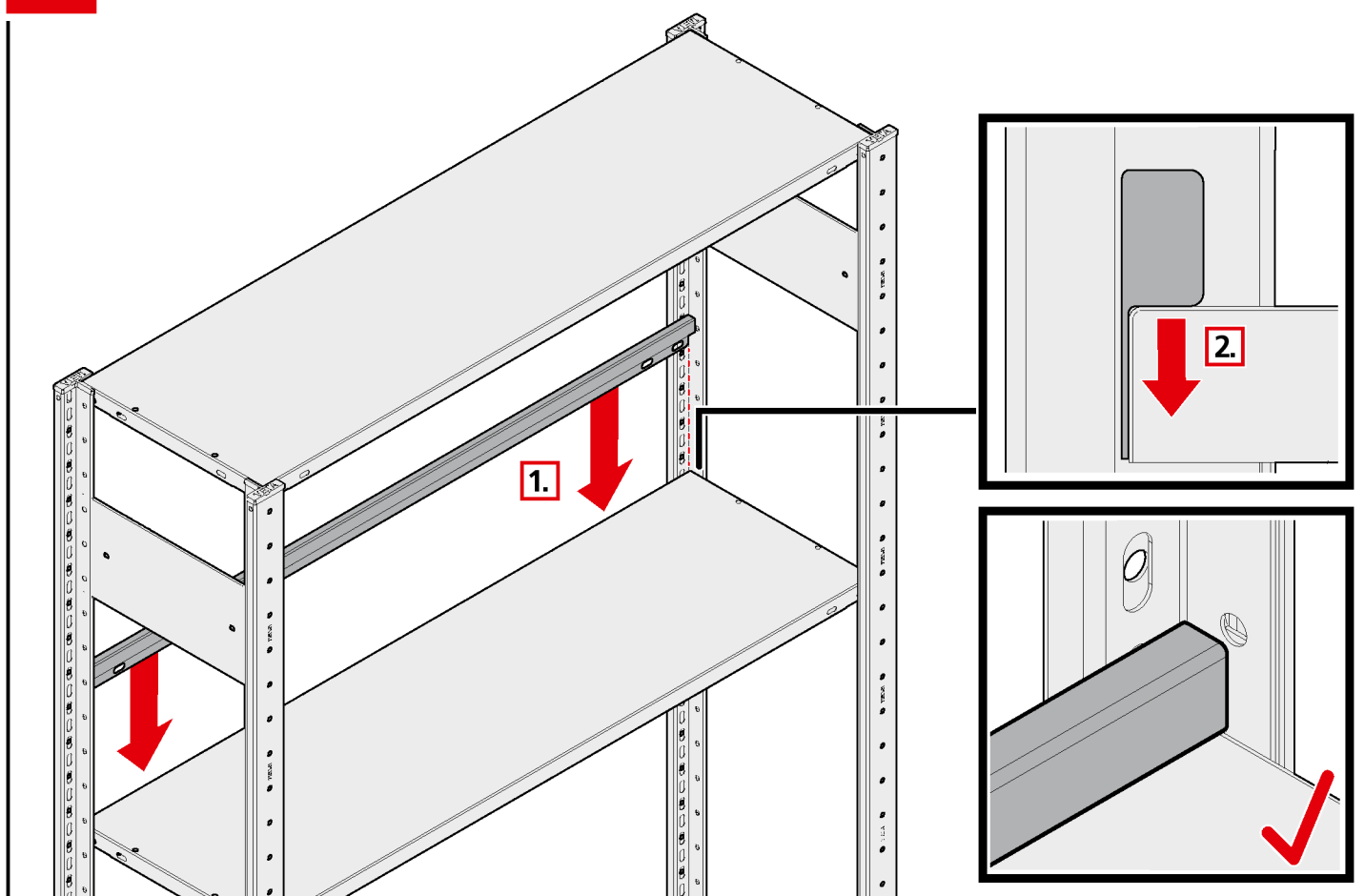
03



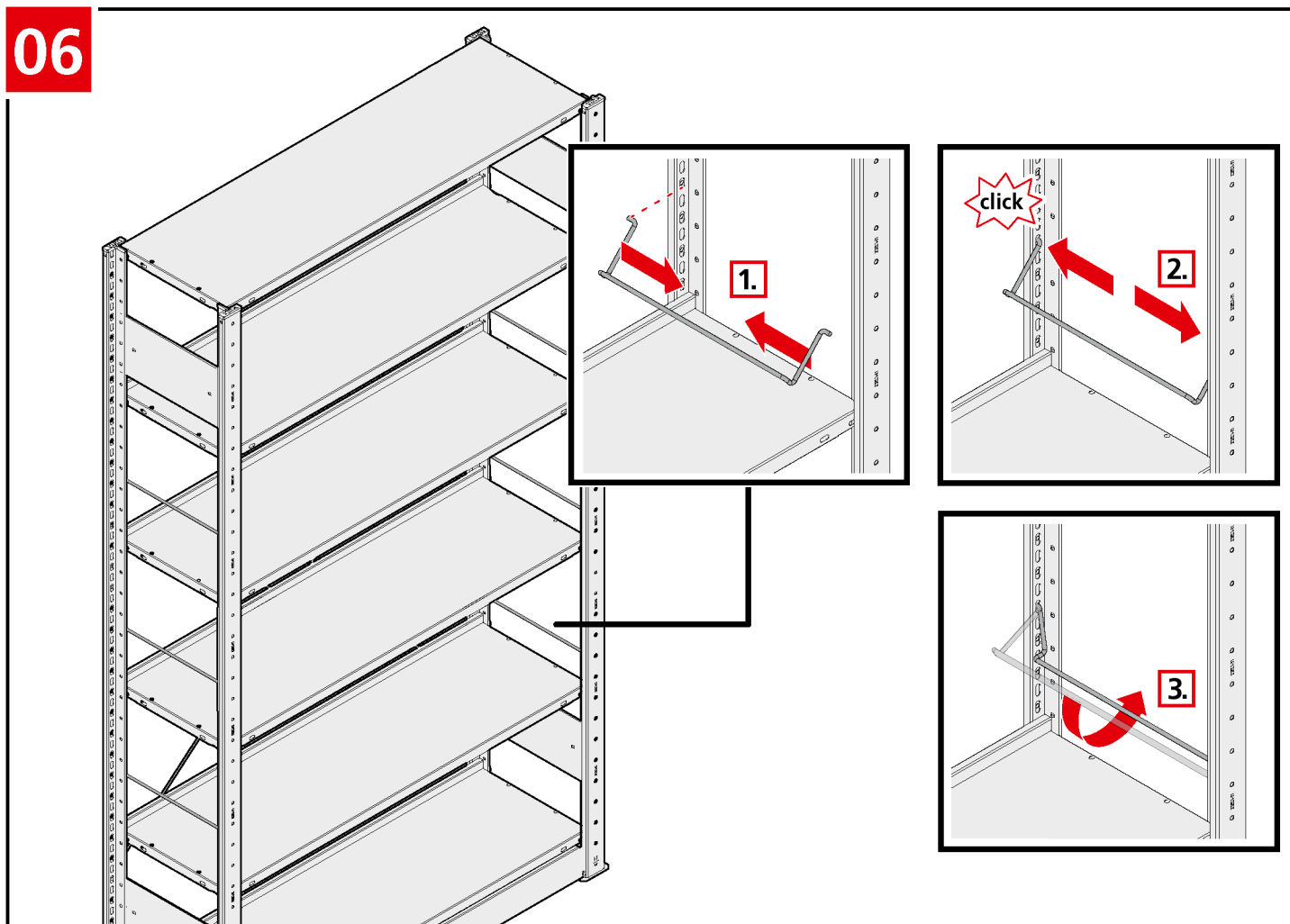
04



05



06



Q

R

S

T

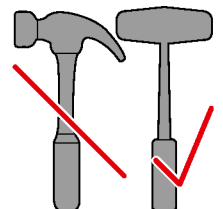
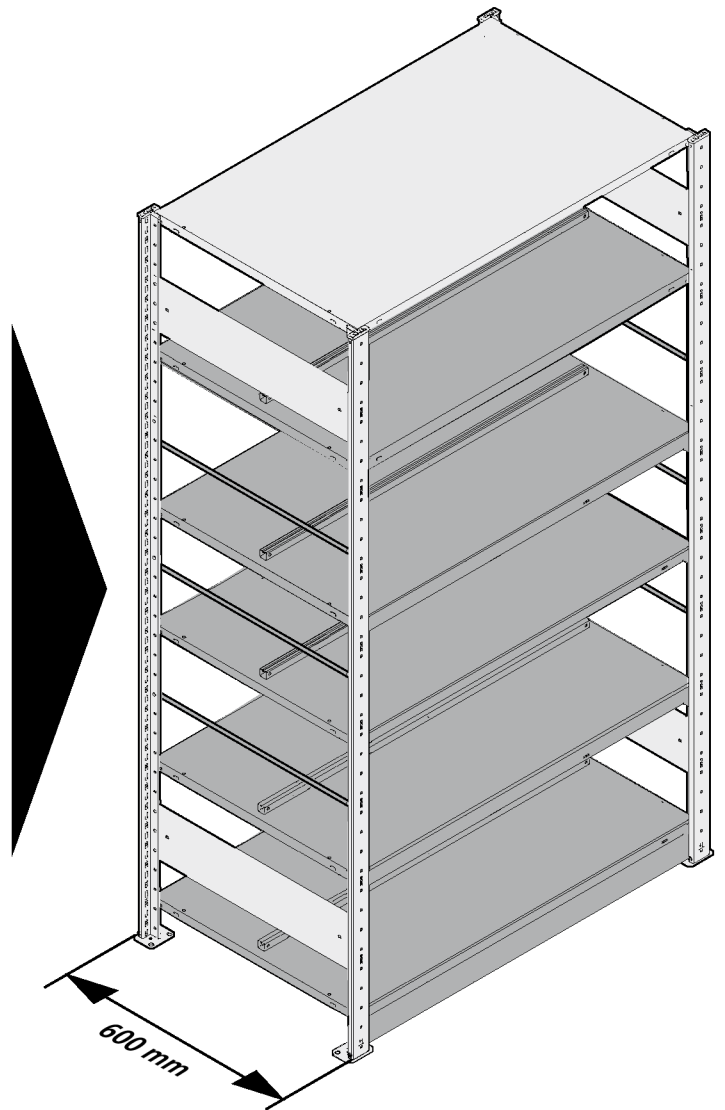
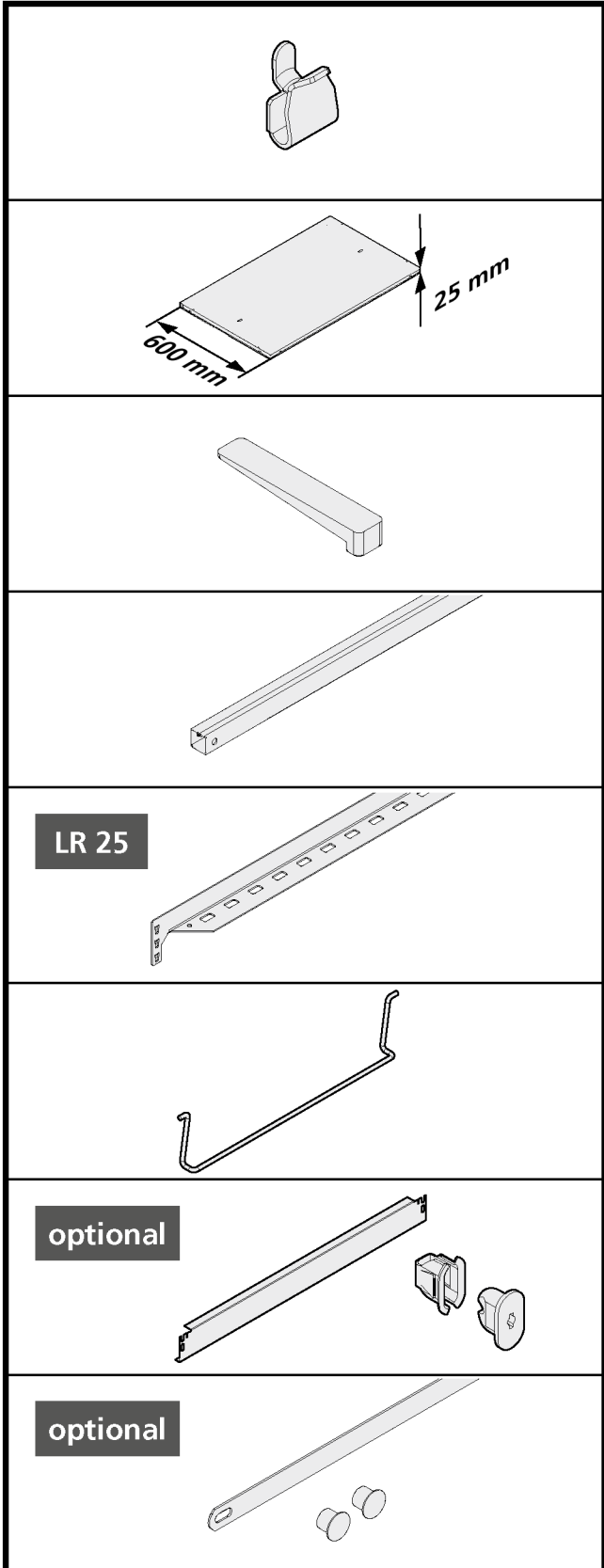
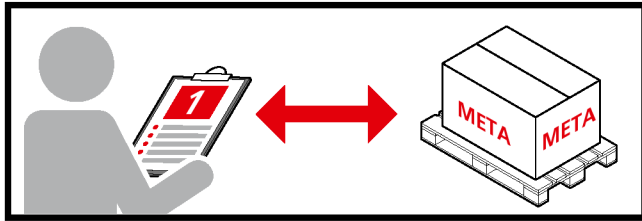
U

V

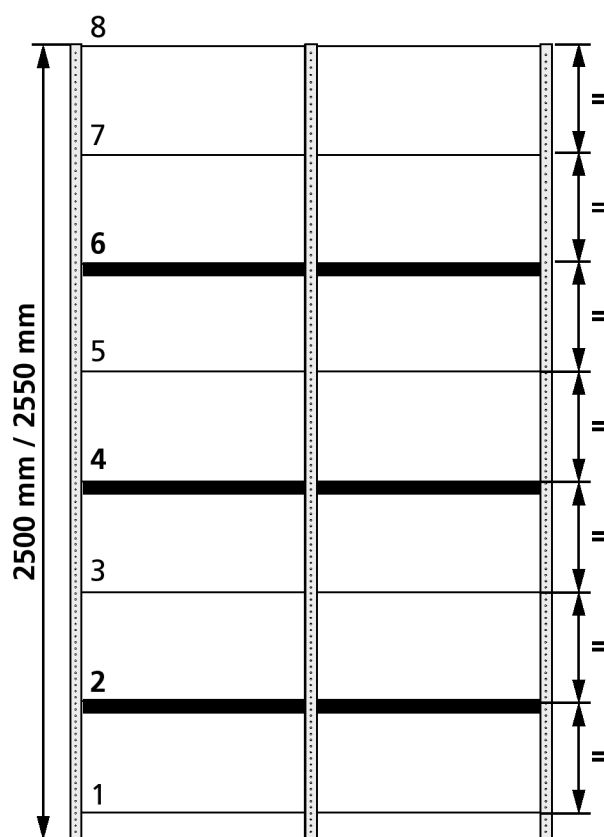
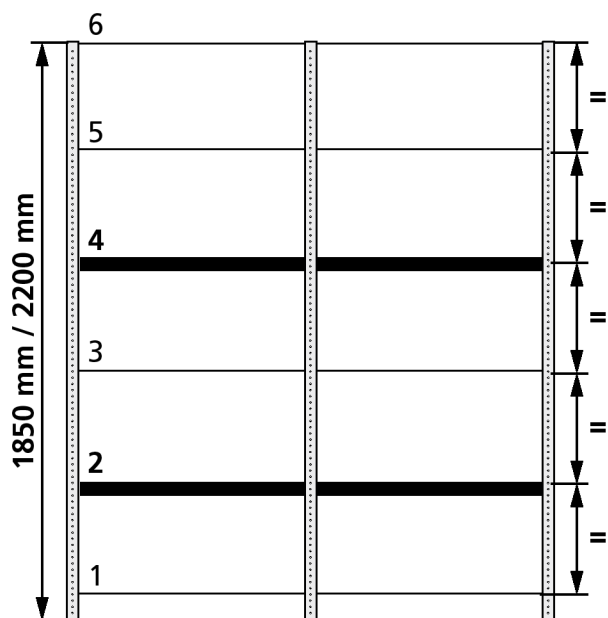
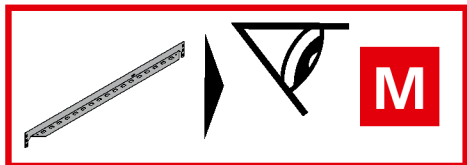
W

X

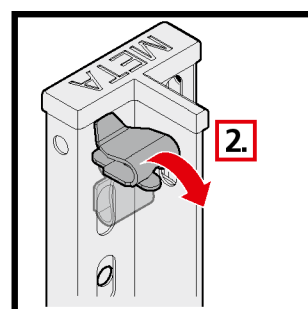
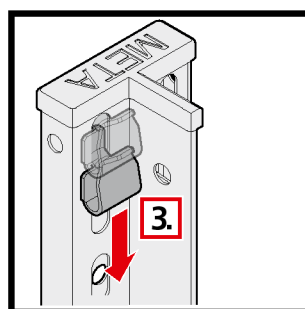
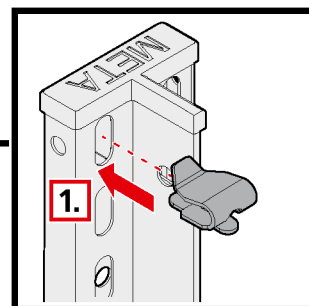
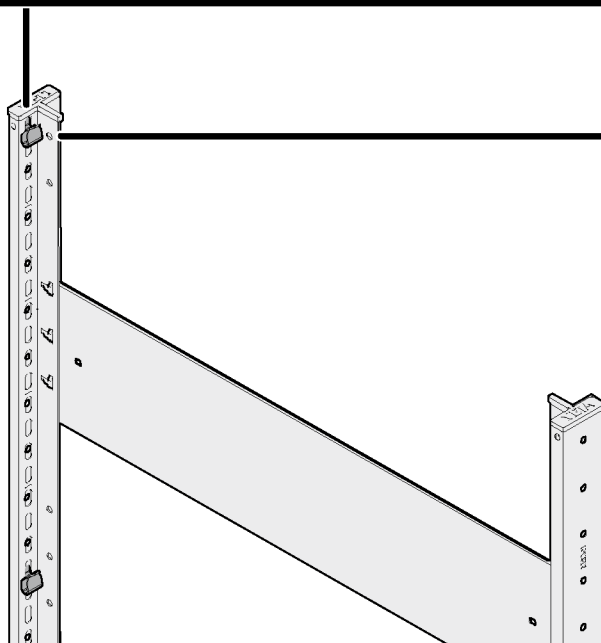
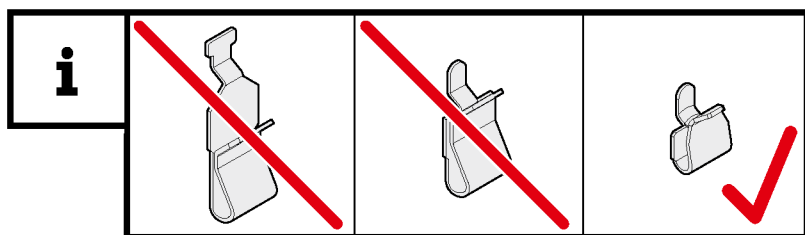
Y

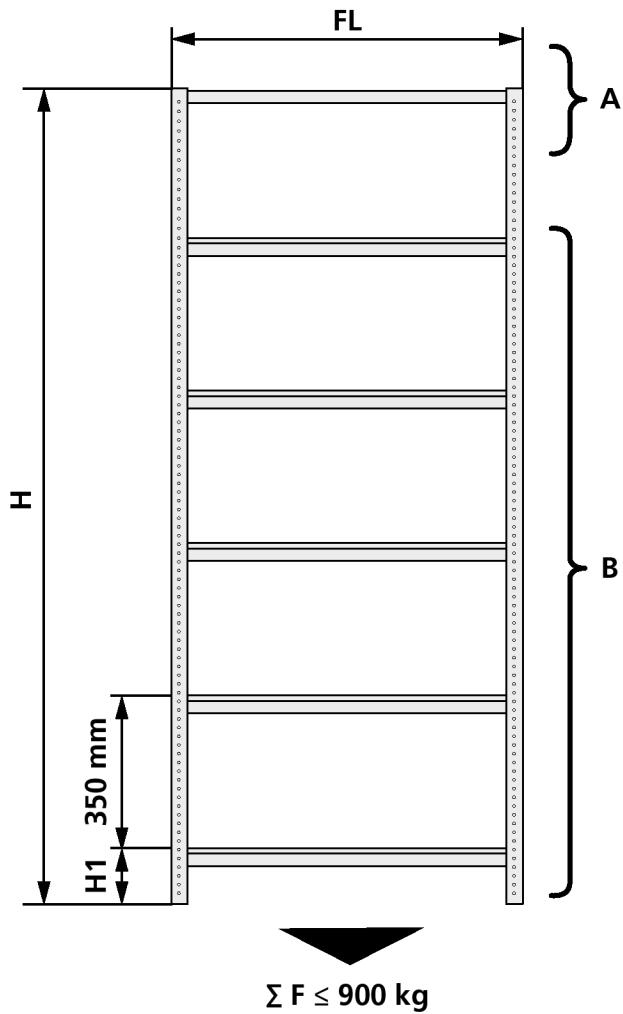
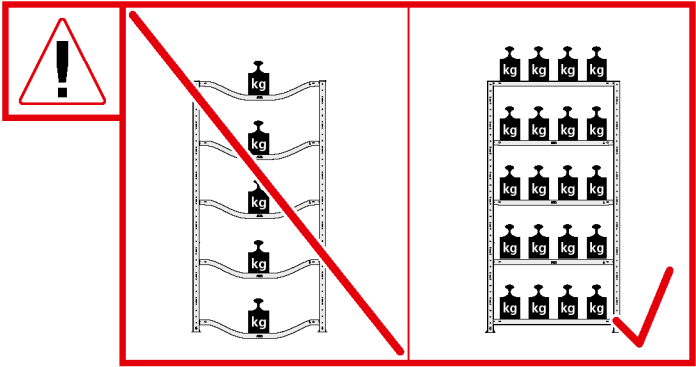


i

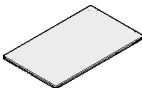
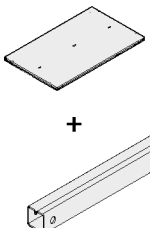


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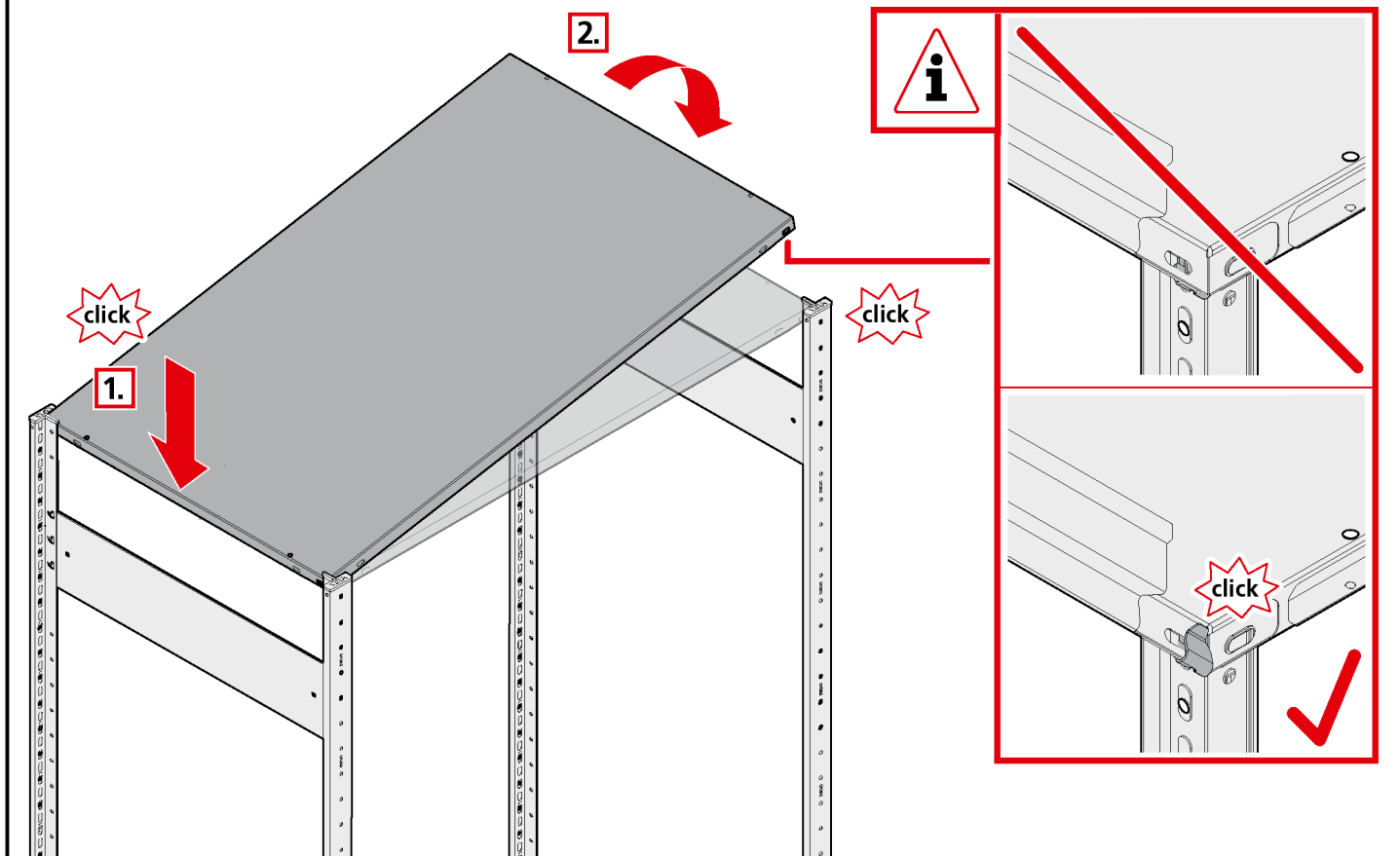




		A + B
H	H1	
1850 mm	100 mm	5 x
2200 mm	100 mm	6 x
2500 mm	50 mm	7 x
2550 mm	100 mm	7 x

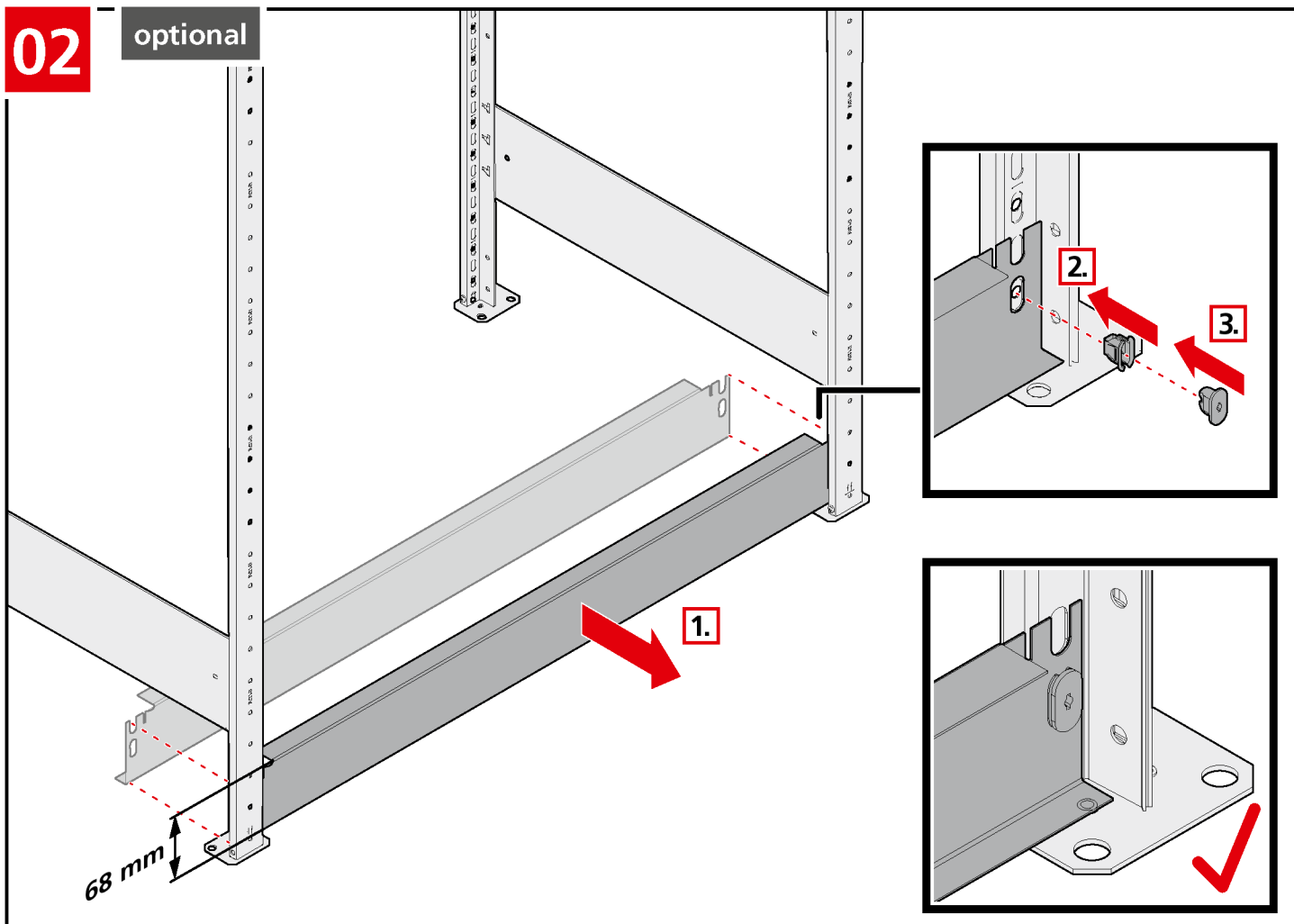
		A	B
			 +
FL	F	F	
750 mm 1000 mm	80 kg	80 kg	
1250 mm		100 kg	

01

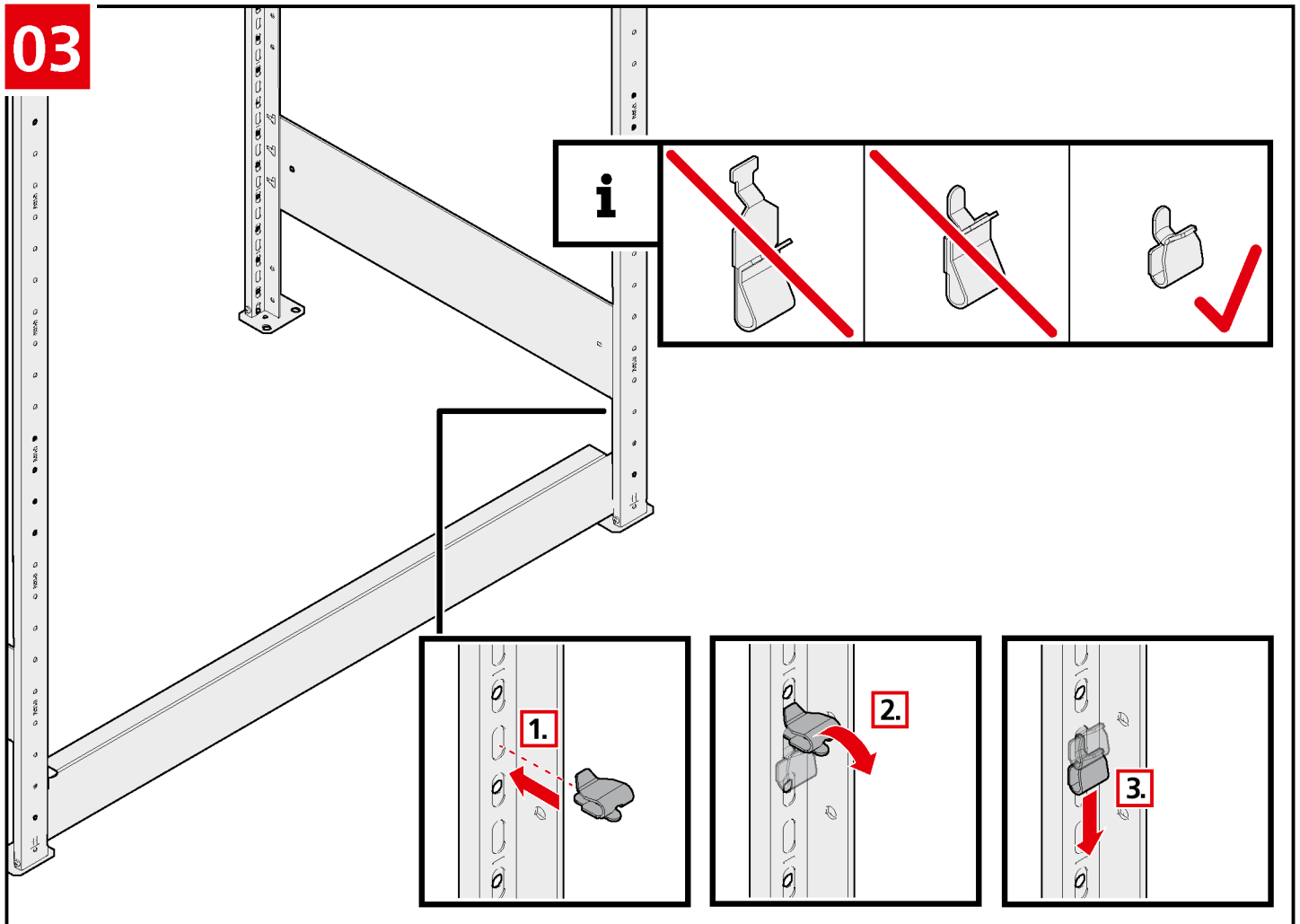


02

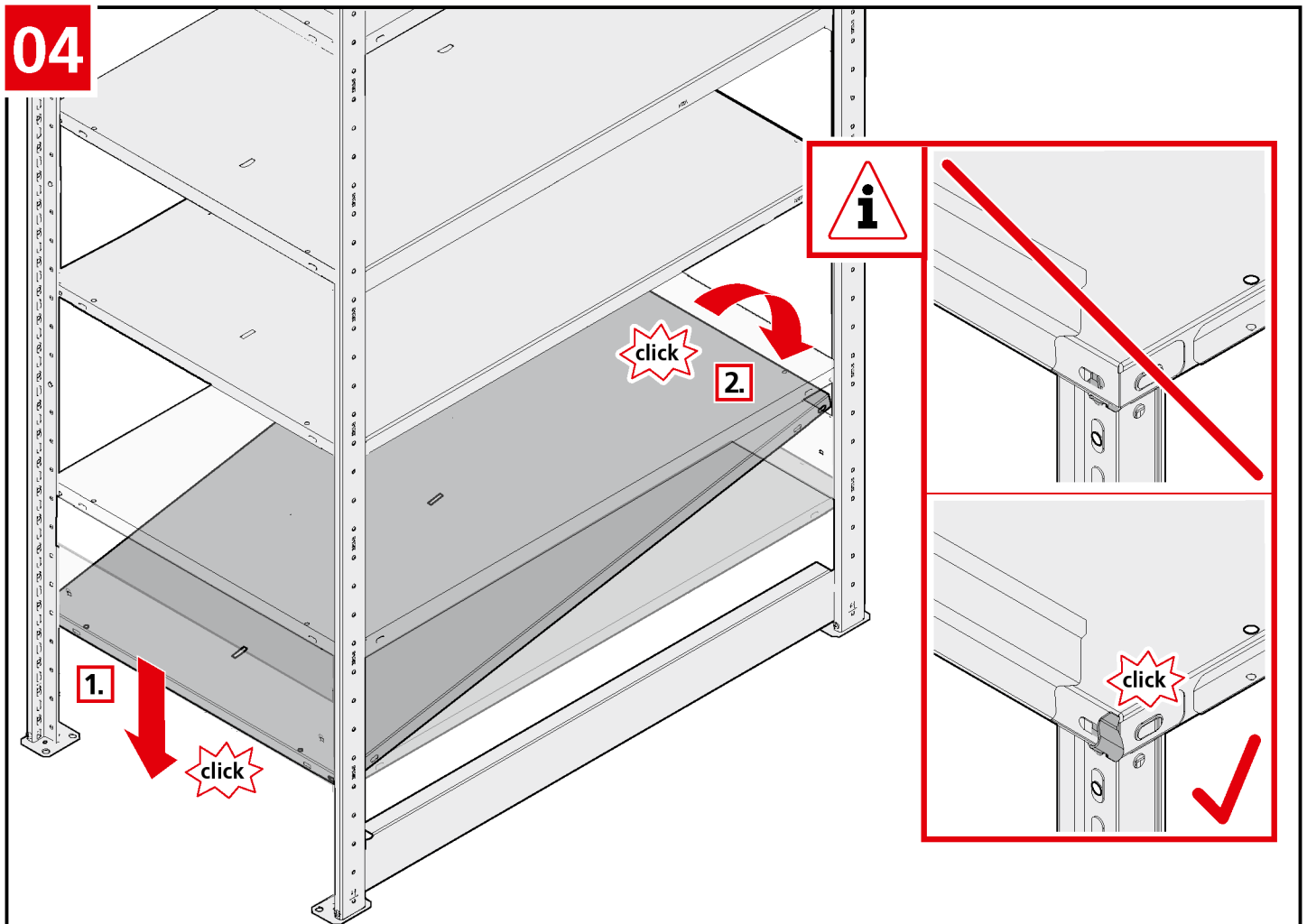
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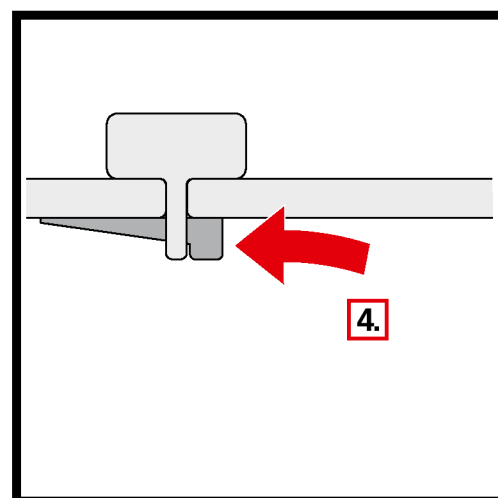
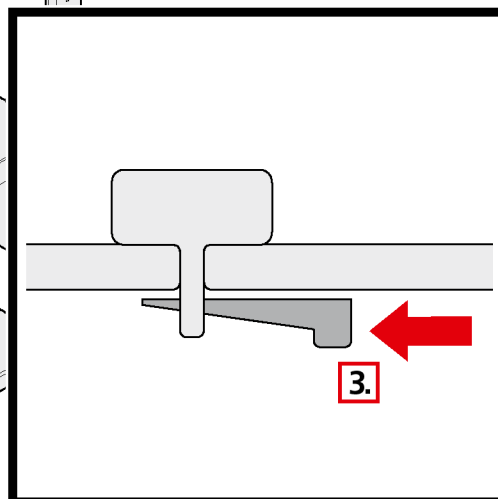
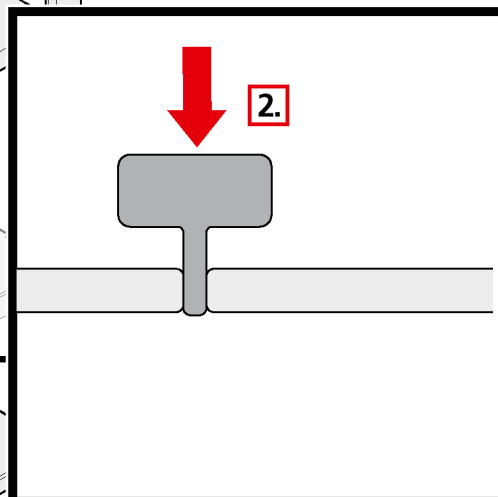
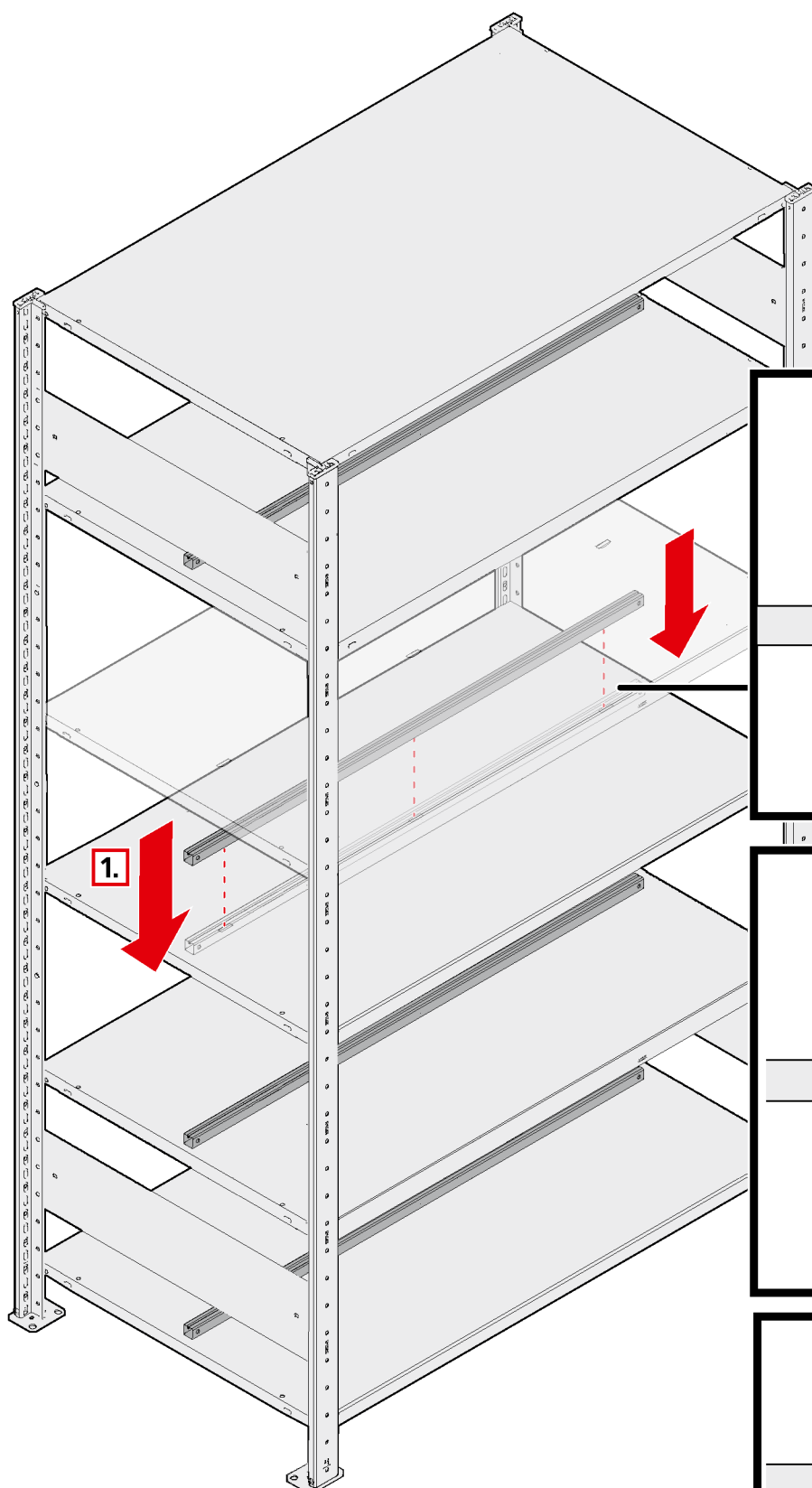


03

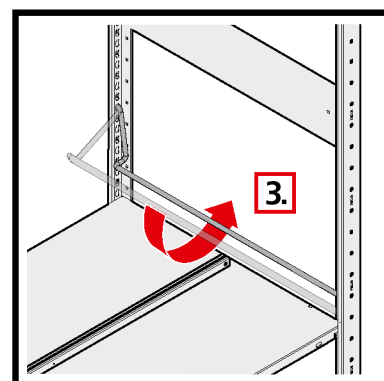
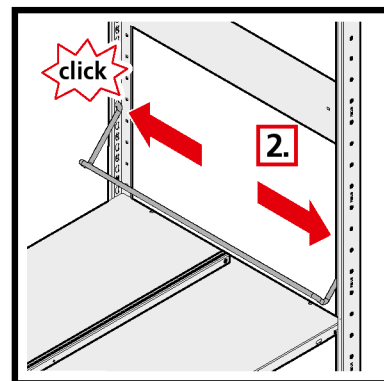
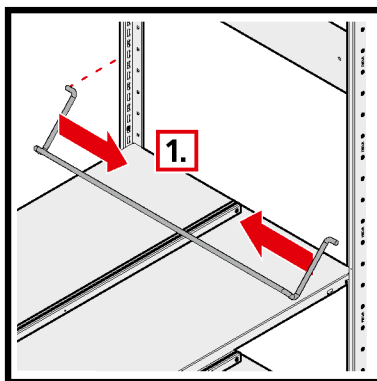
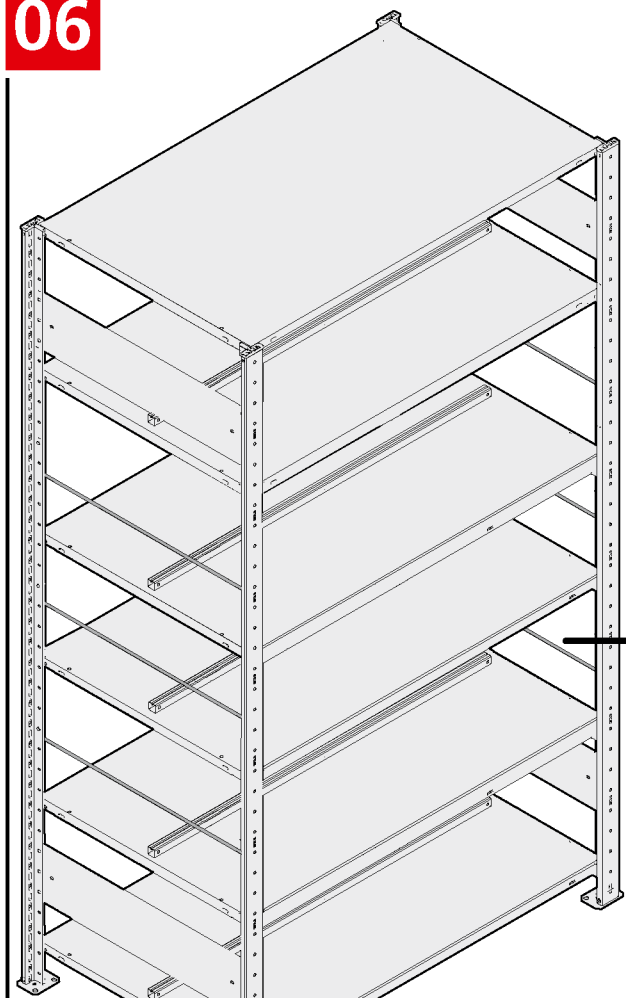


04



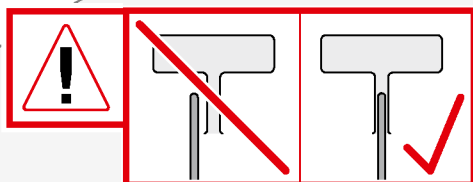
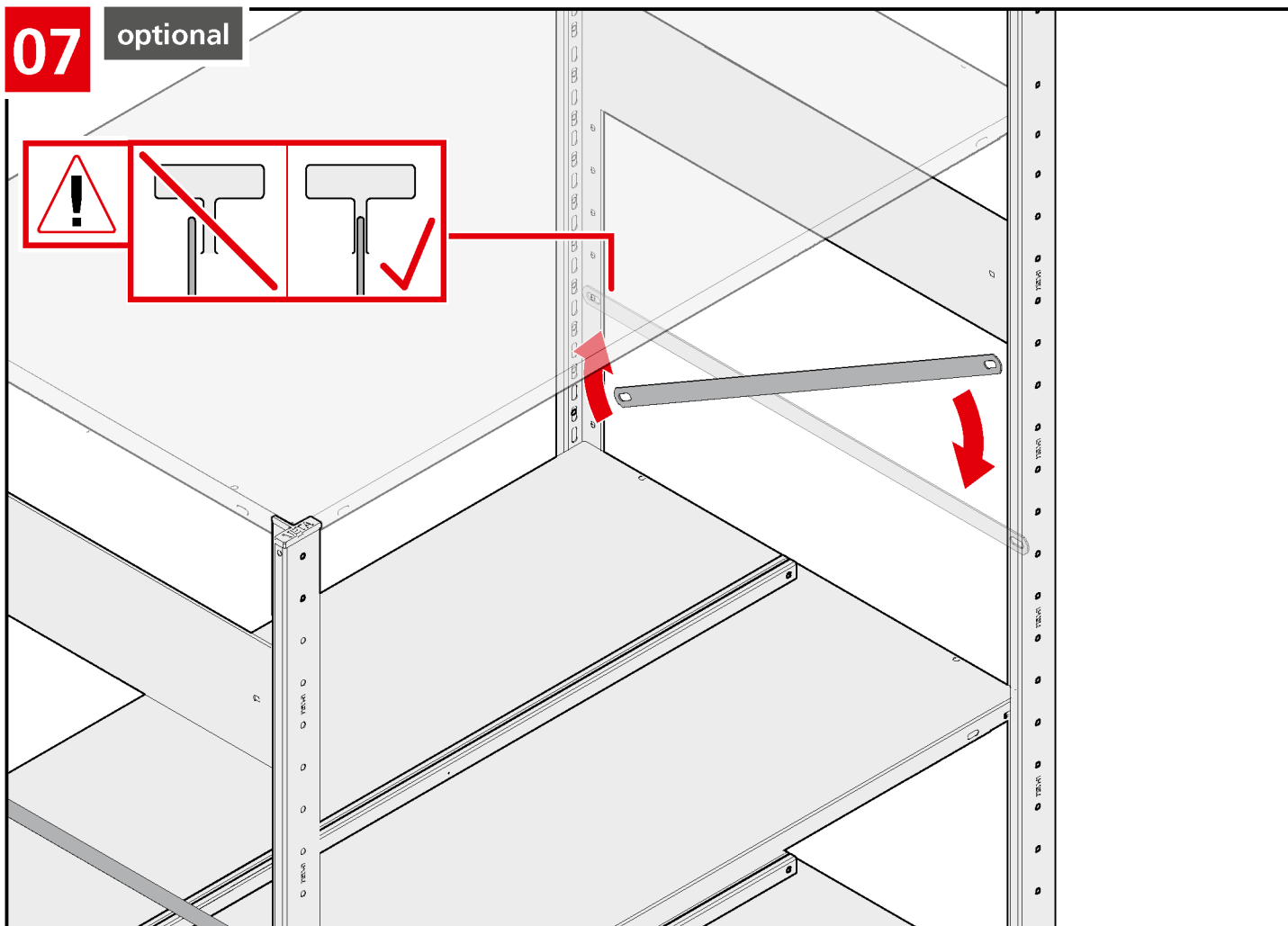


06



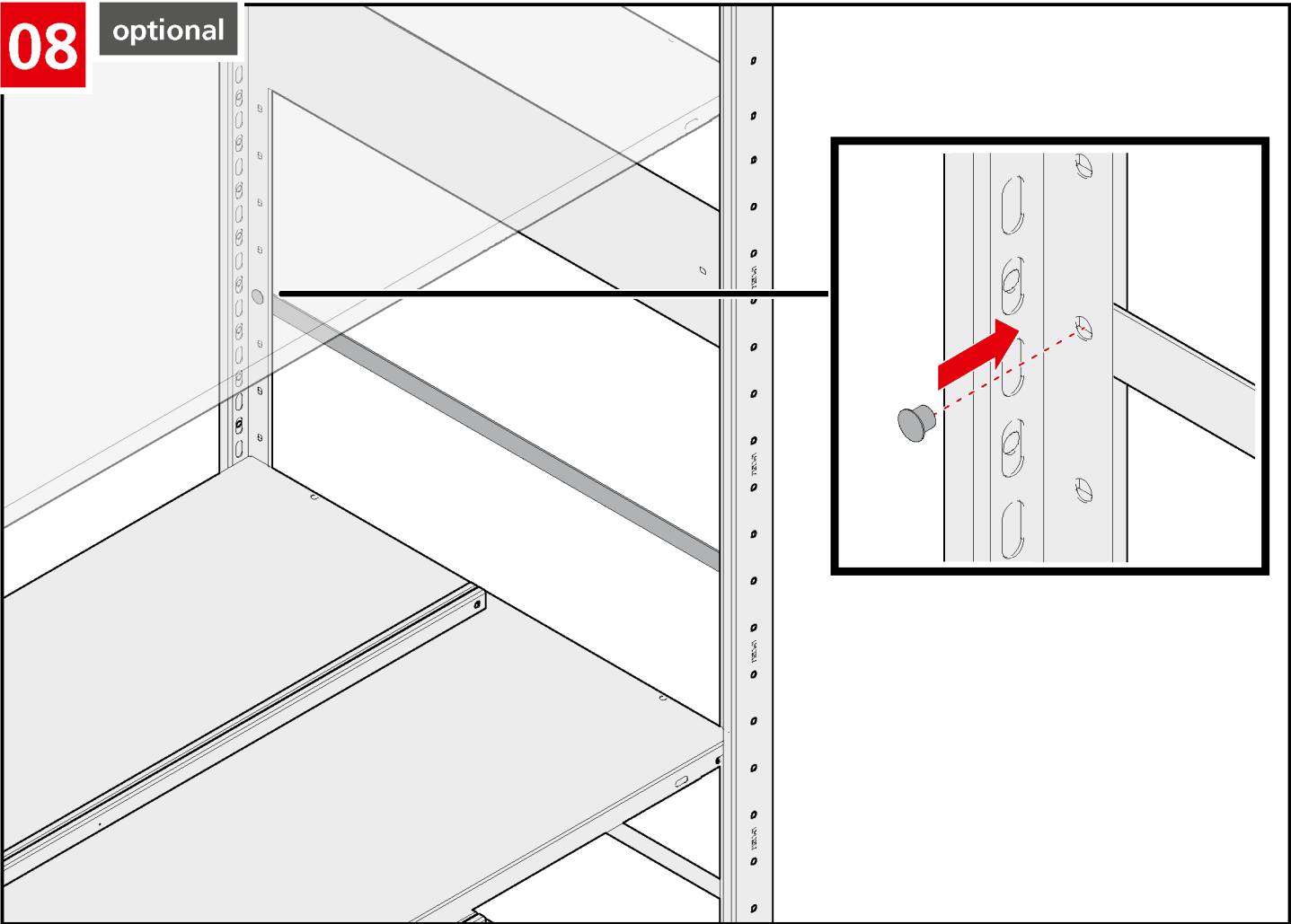
07

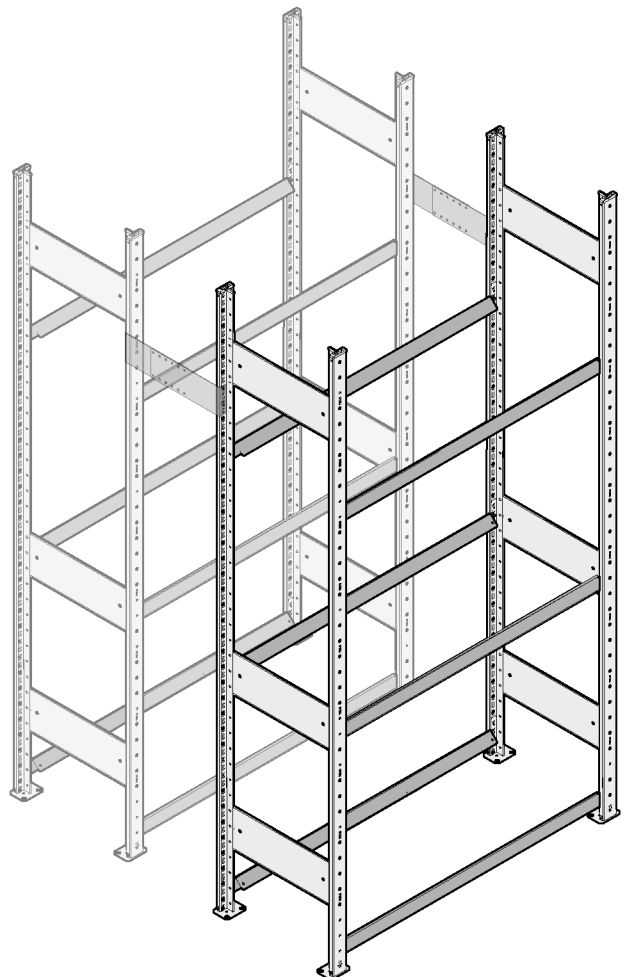
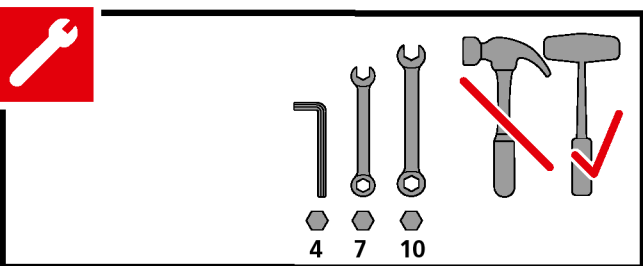
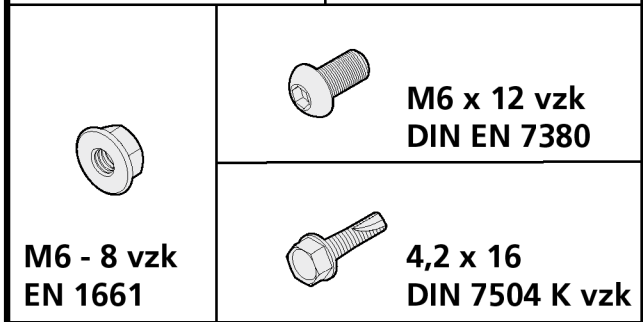
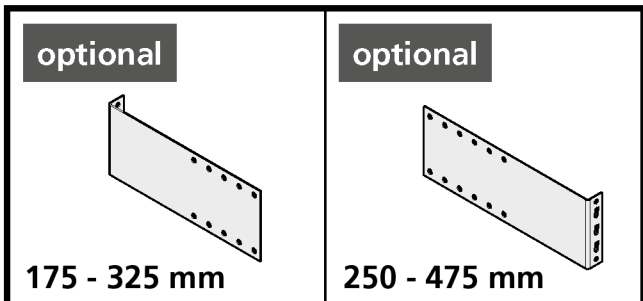
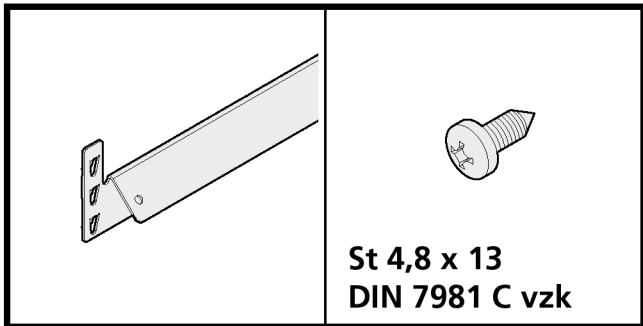
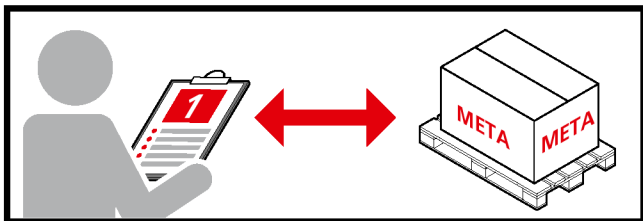
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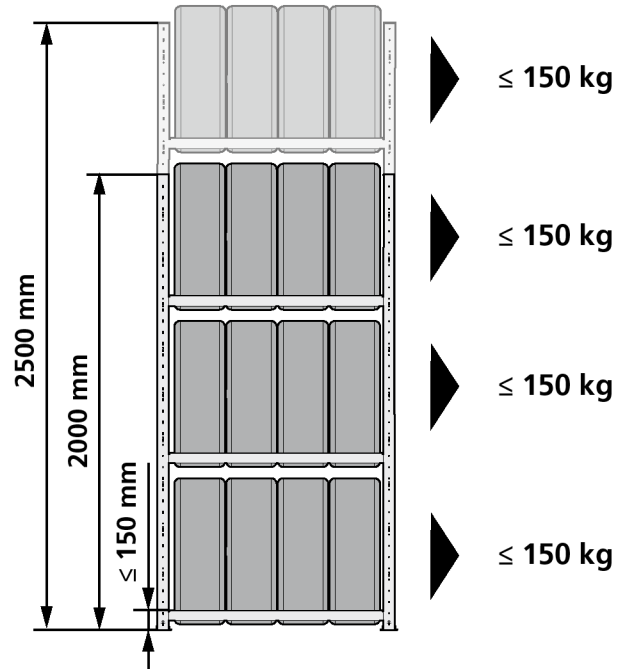
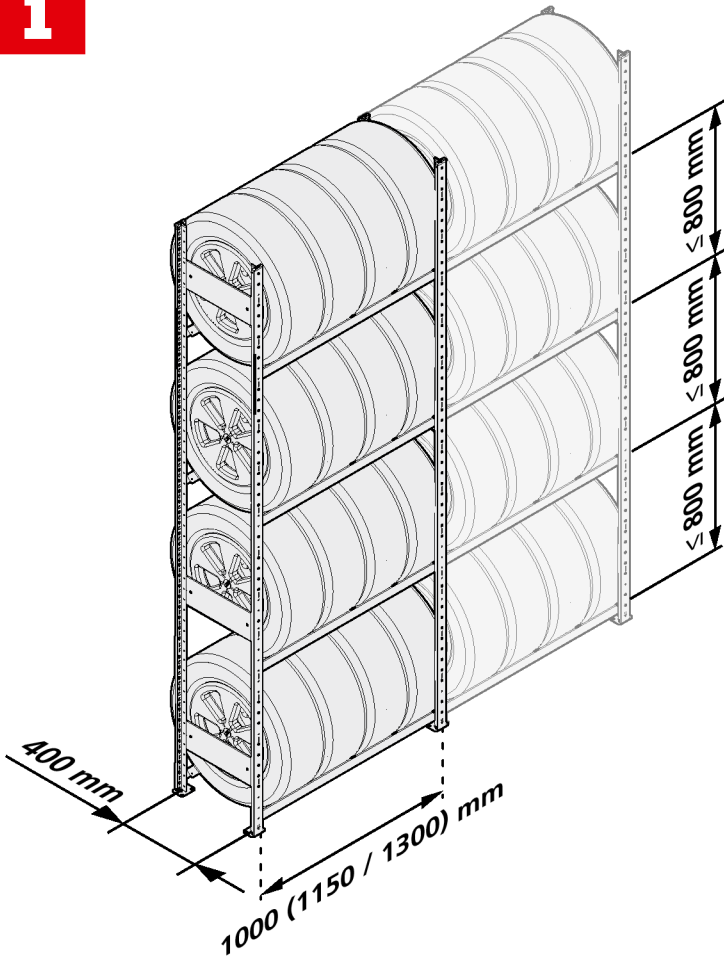
08

optional

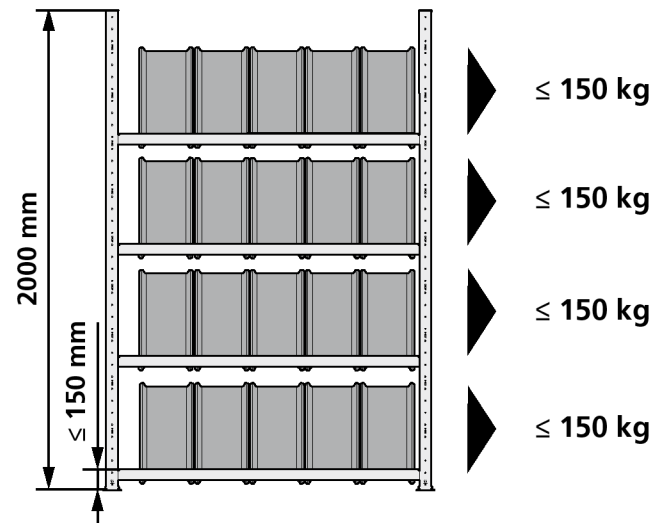
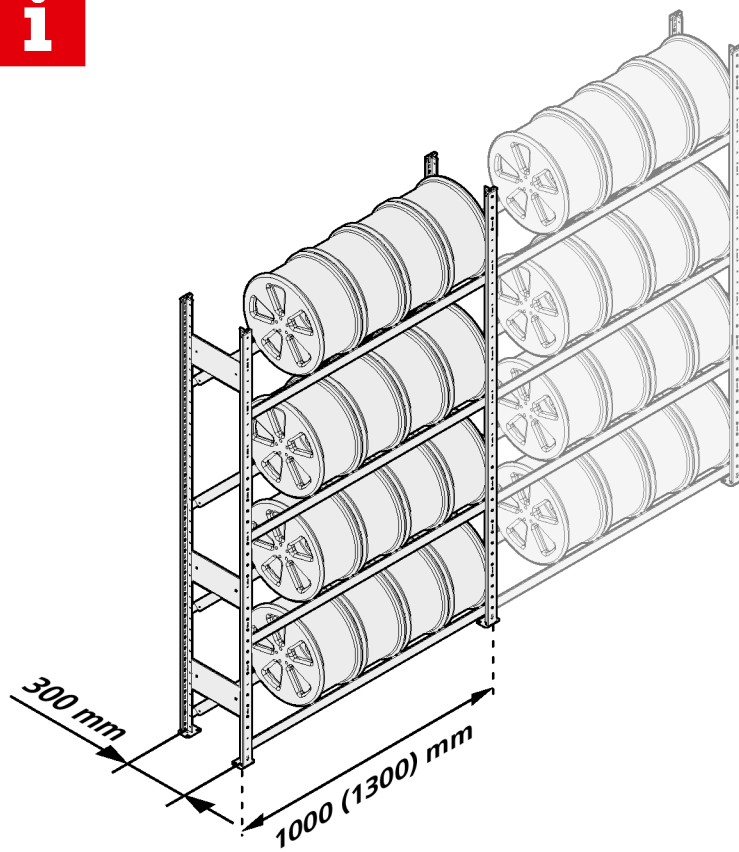




i



i



Q

R

S

T

U

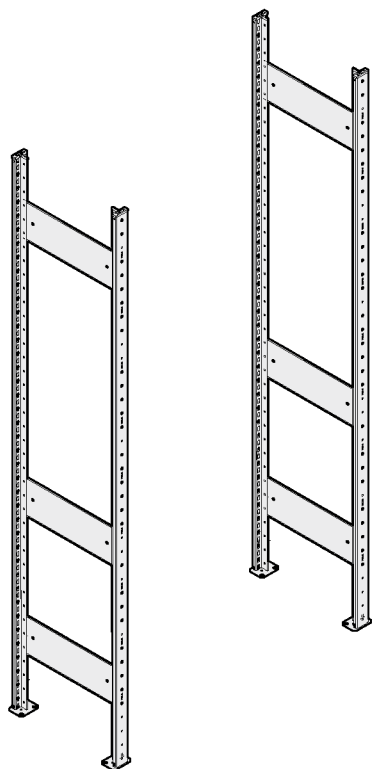
V

W

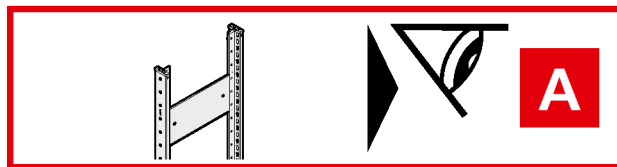
X

Y

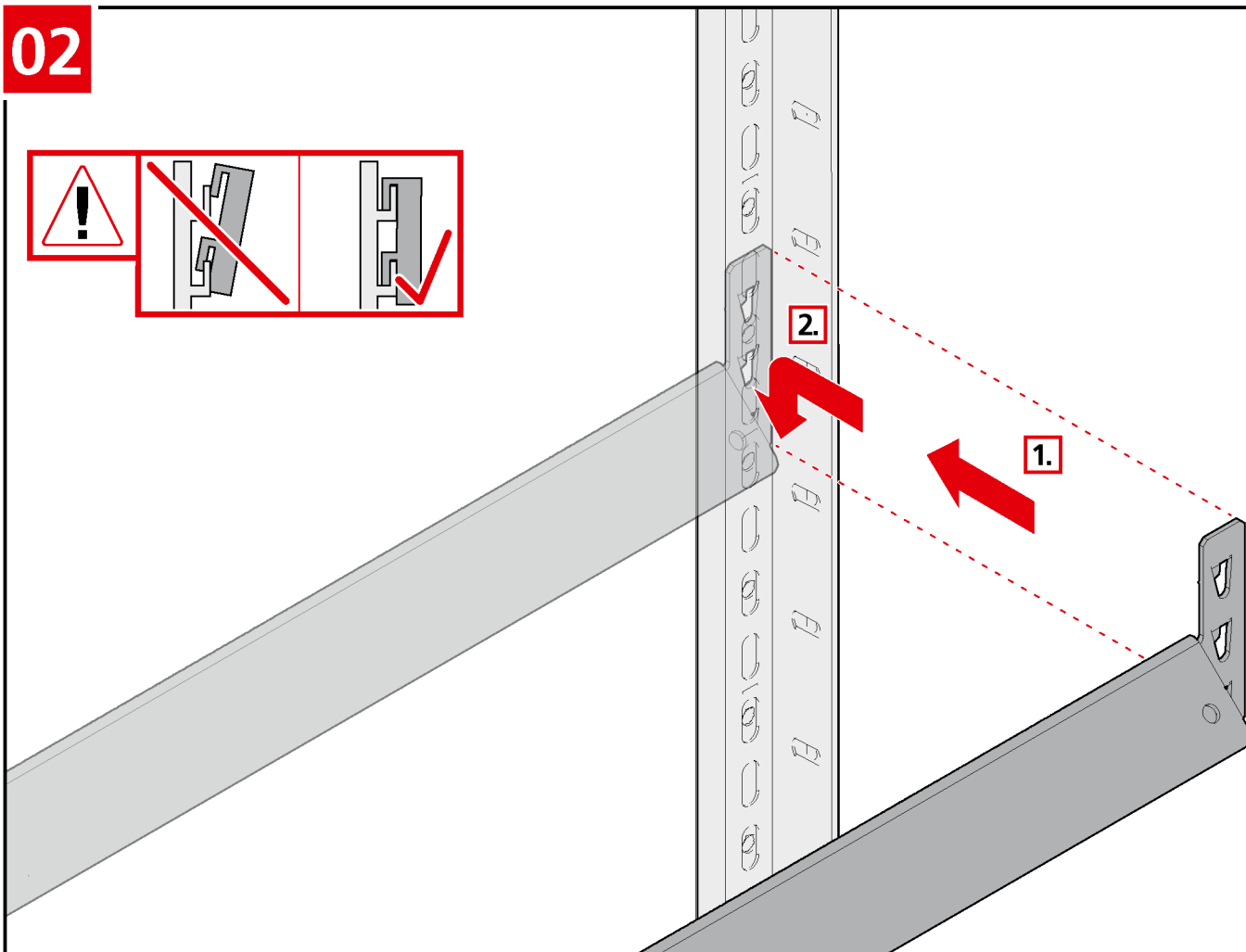
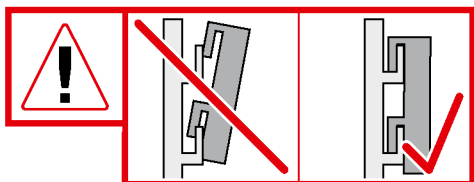
01



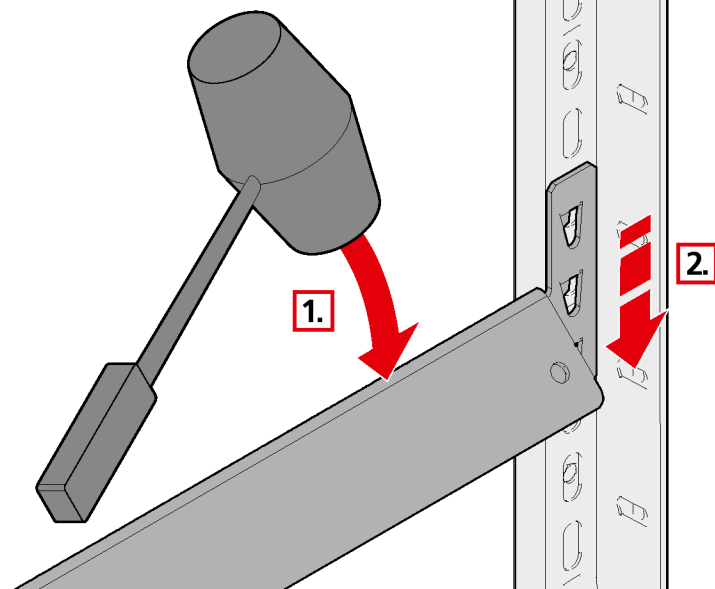
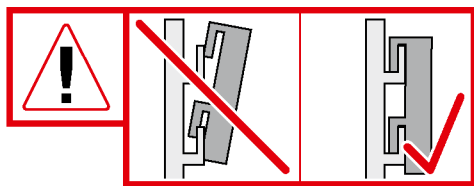
1.



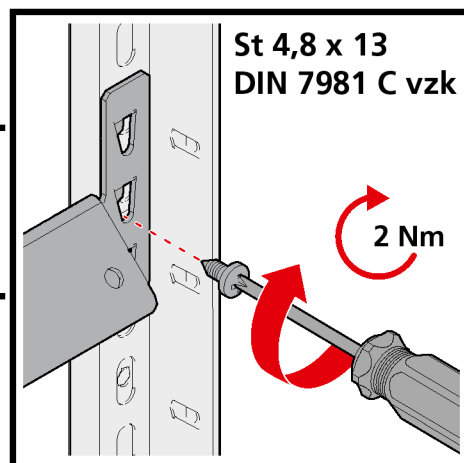
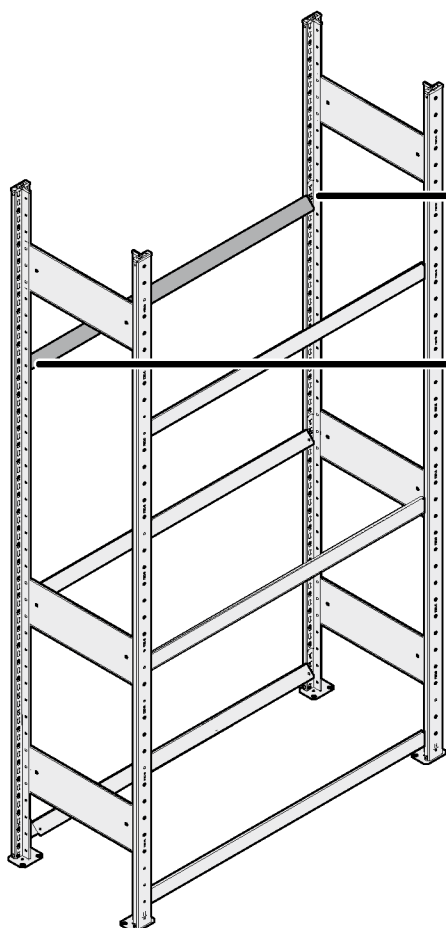
02

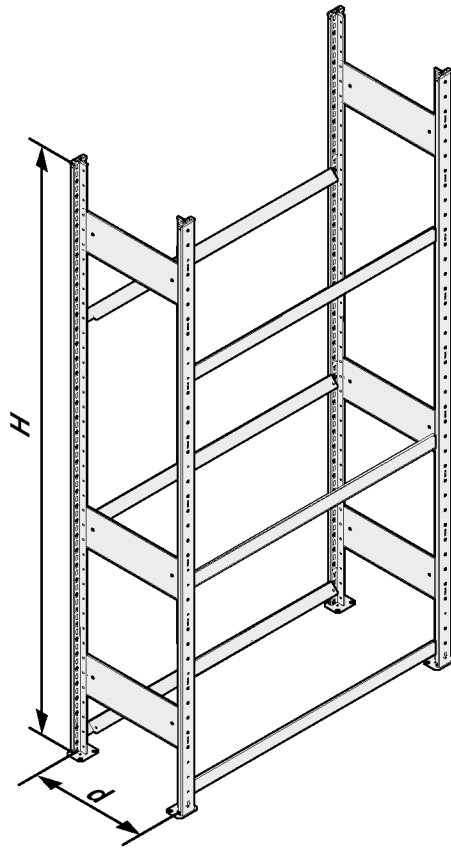


03



04





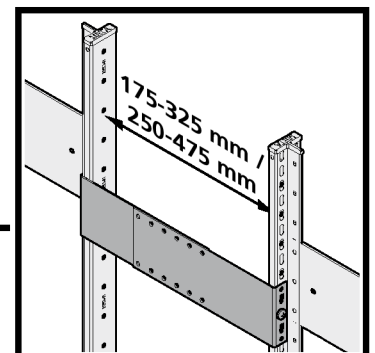
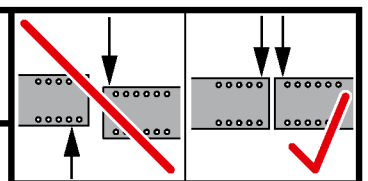
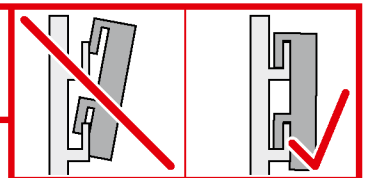
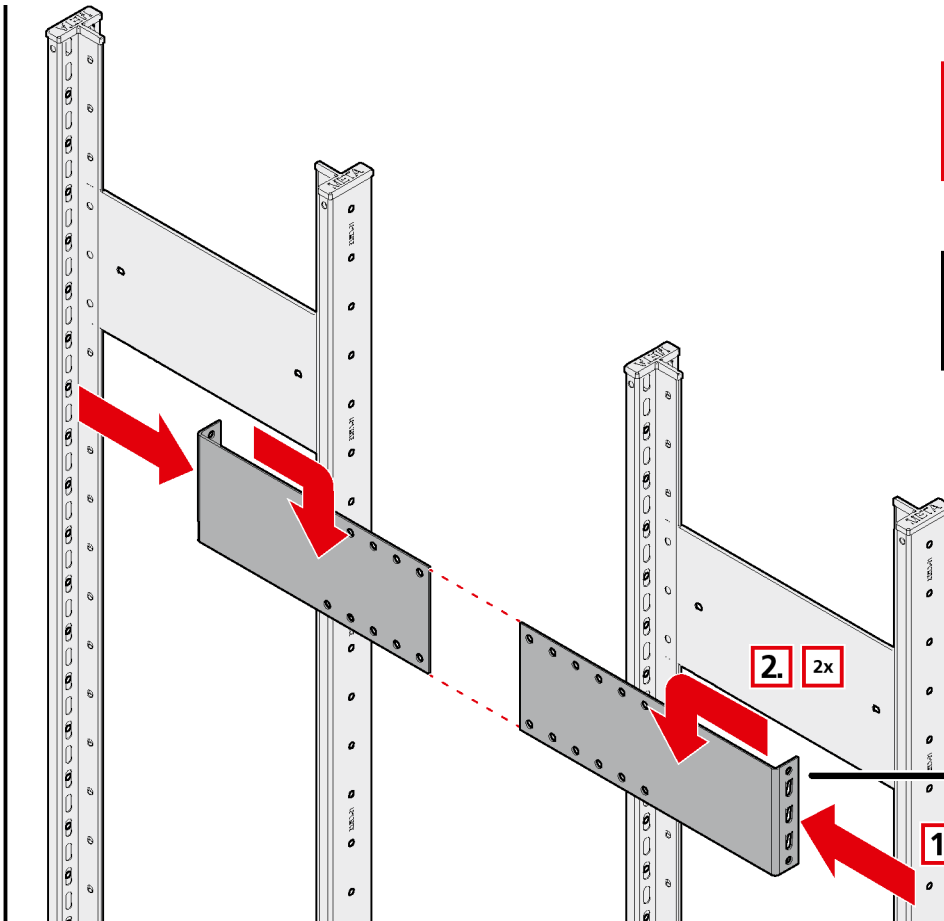
$H : d \geq 5 : 1$
 $H \geq 2500 \text{ mm}$



E

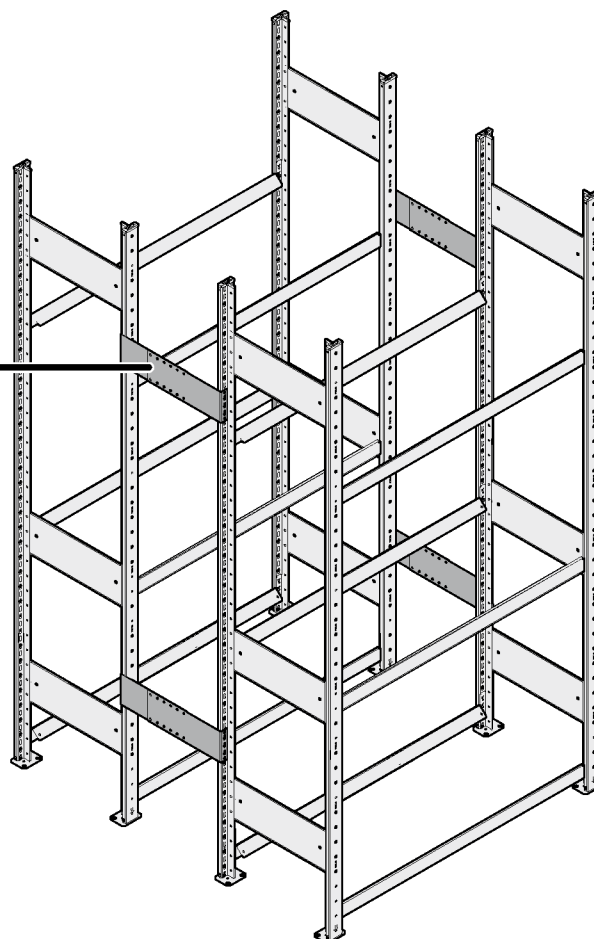
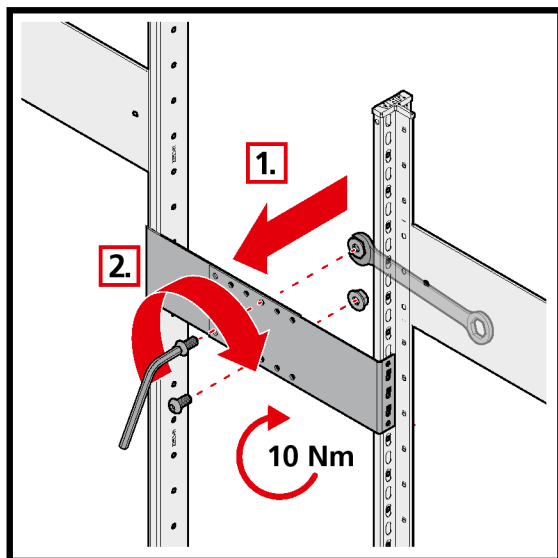
05

optional

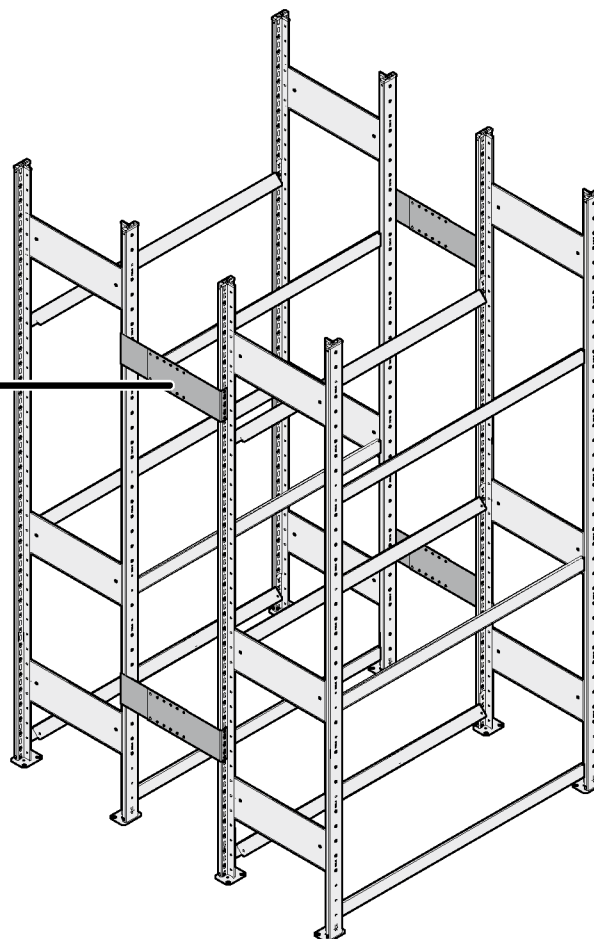
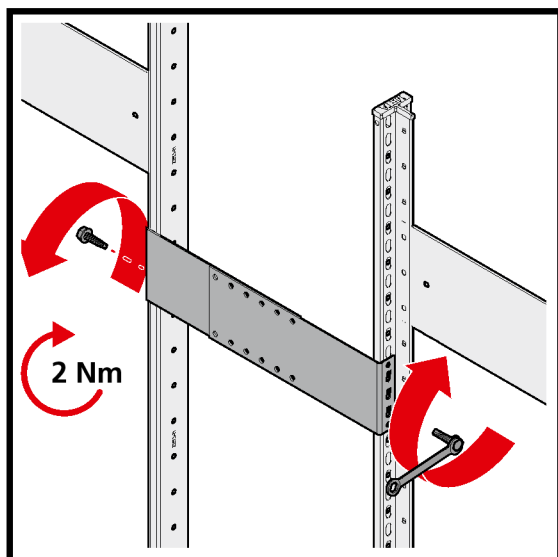


06

optional

**07**

optional



Q

R

S

T

U

V

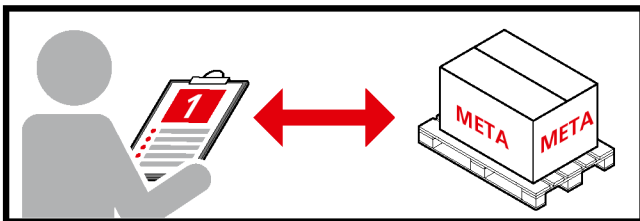
W

X

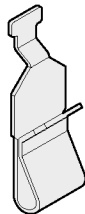
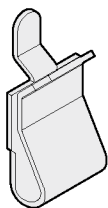
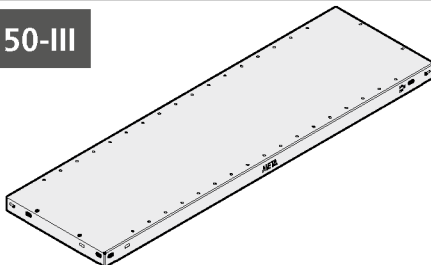
Y



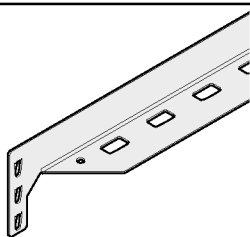
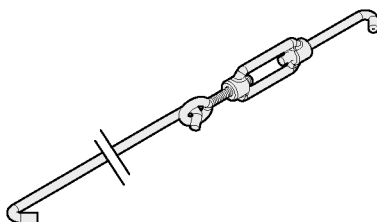
MS150-III



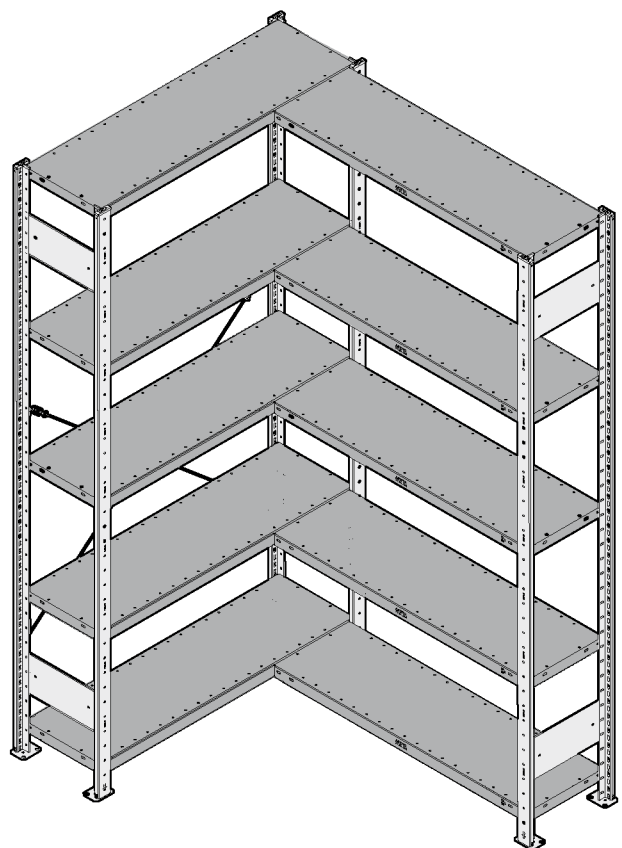
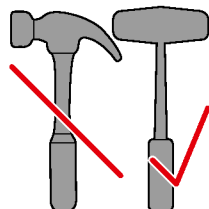
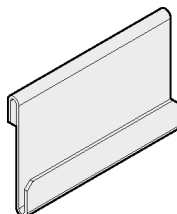
MS150-III

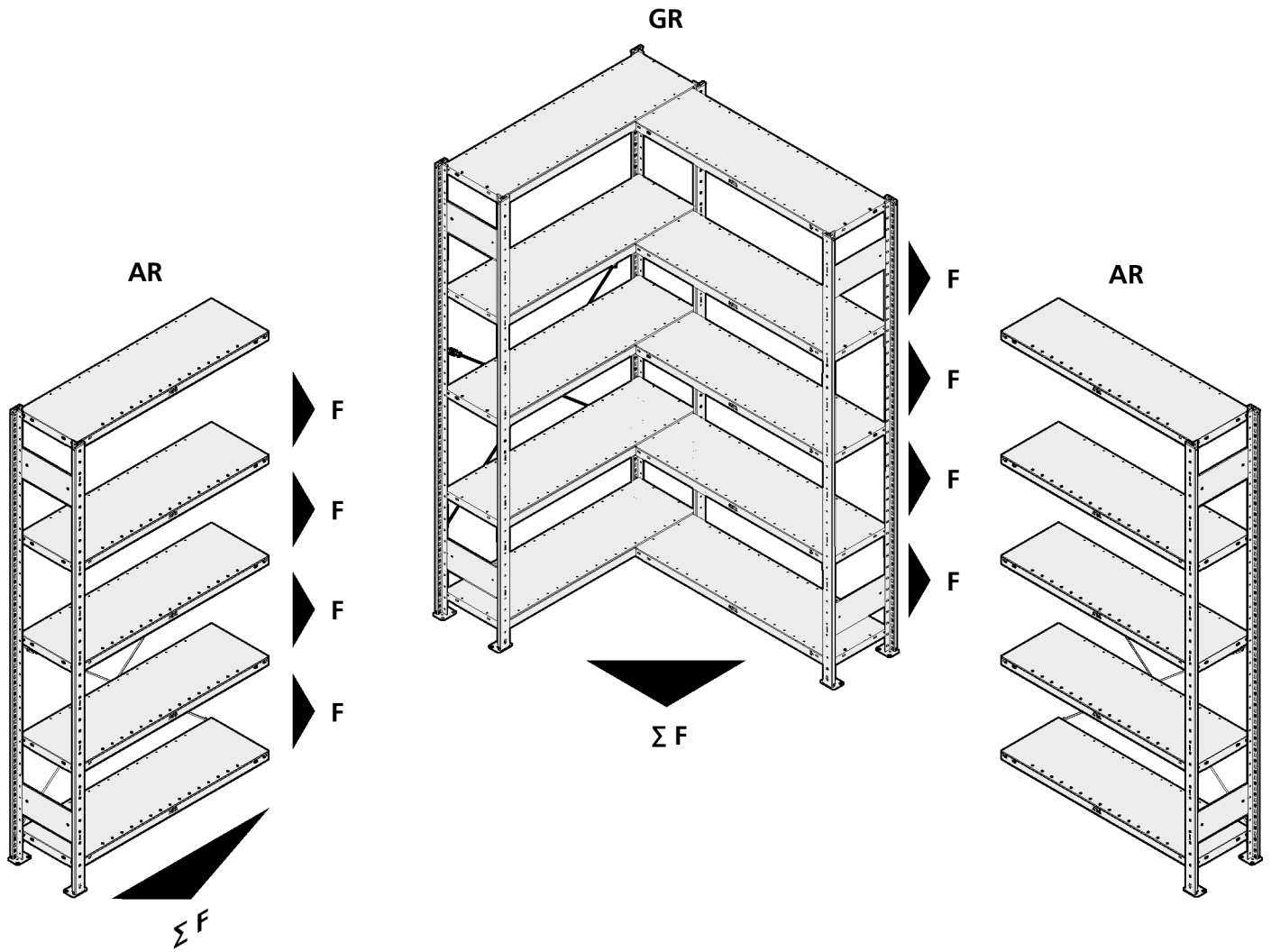


GR



St 4,8 x 13
DIN 7981 C vzk





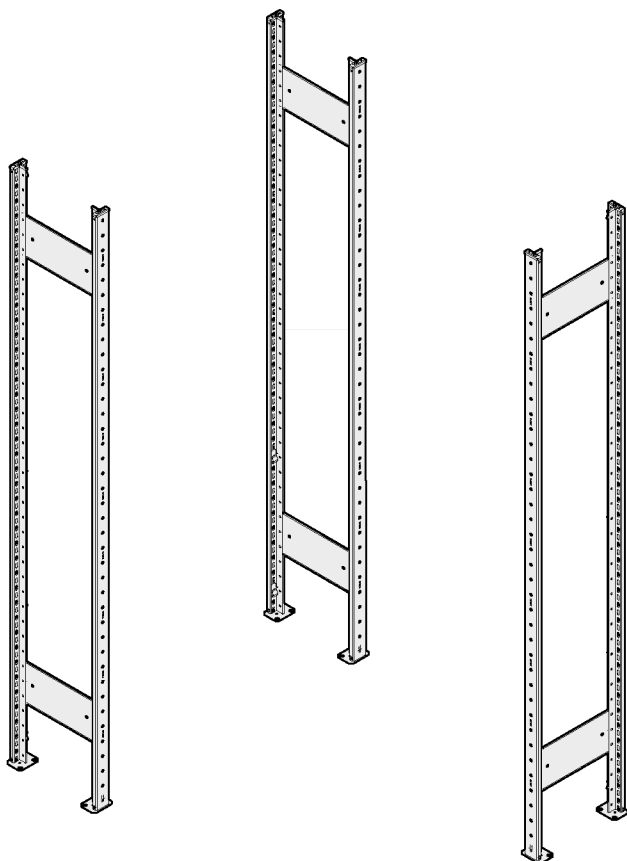
GR

H	 MS150-III	F	Σ F
2000 mm	10 x	100 kg	1000 kg
2500 mm	12 x		1200 kg
3000 mm	14 x		1400 kg

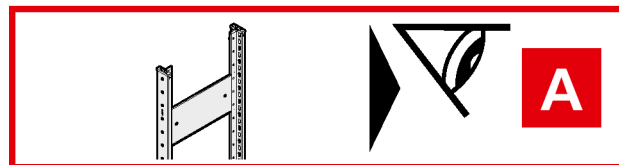
AR

H	 MS150-III	F	Σ F
2000 mm	5 x	100 kg	1650 kg
2500 mm	6 x		2400 kg
3000 mm	7 x		1900 kg

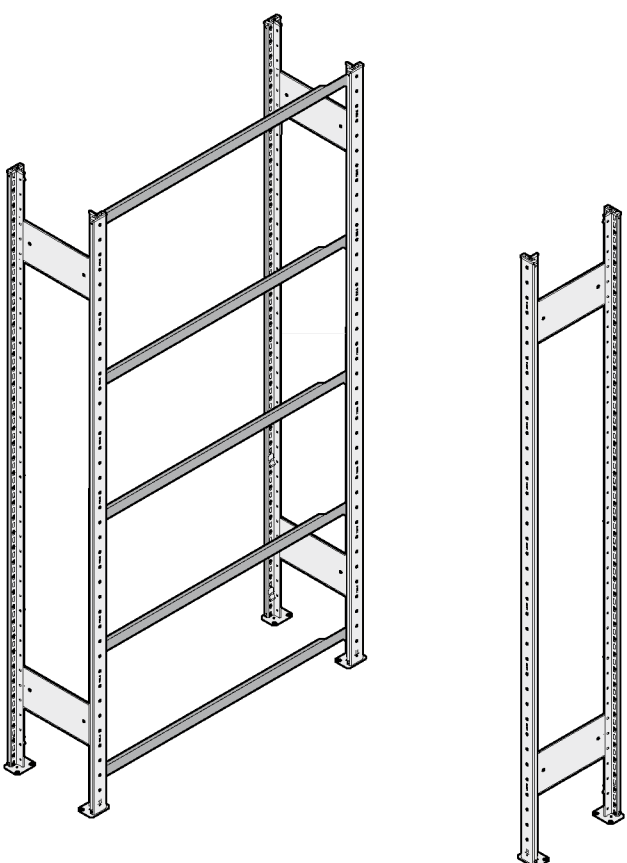
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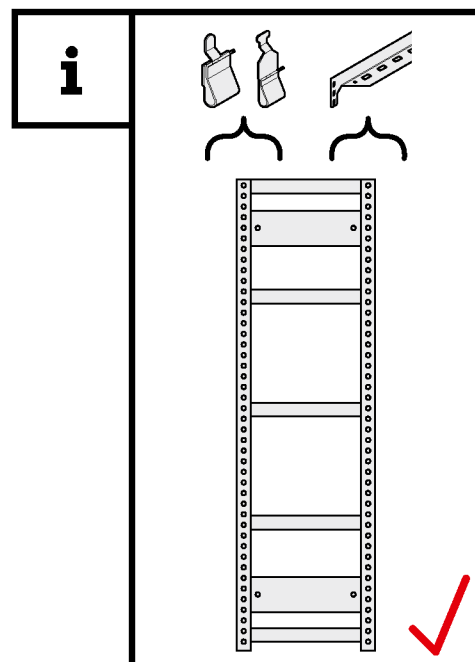
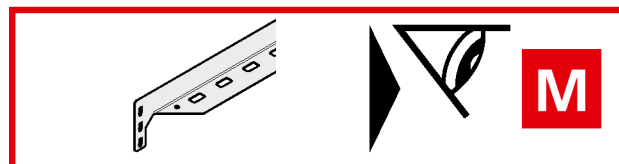
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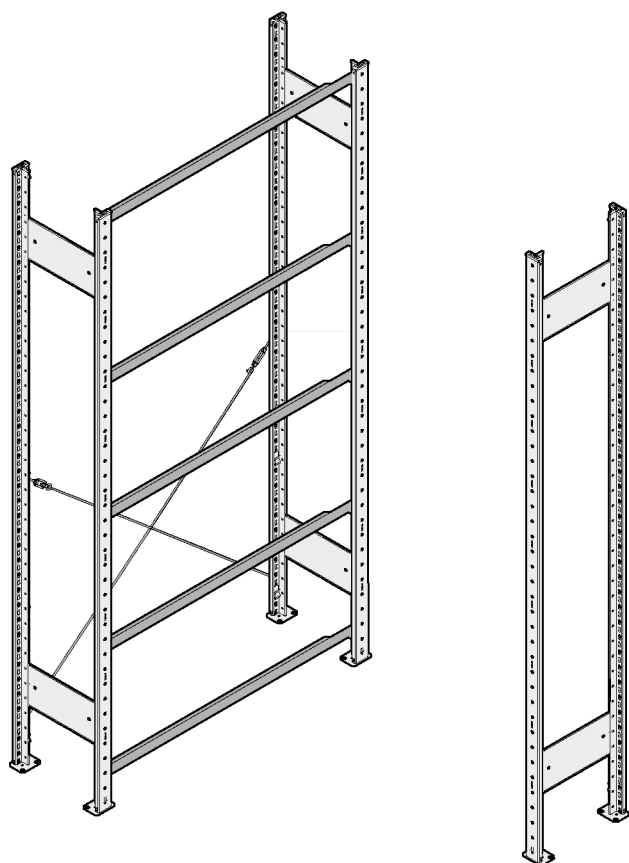
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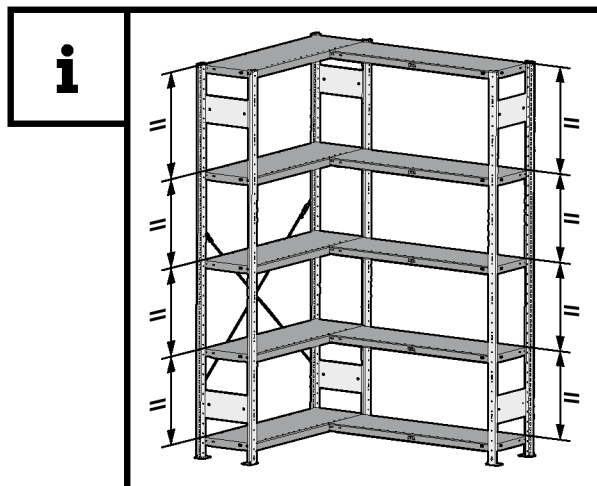
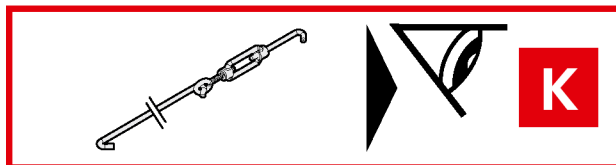
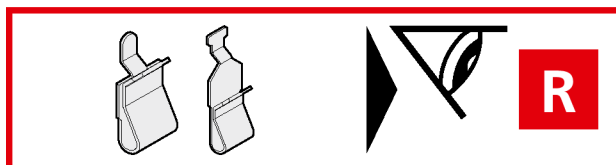
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03

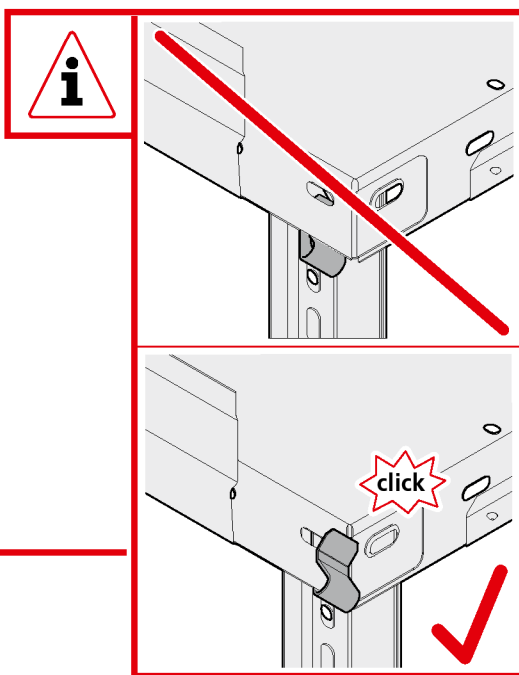
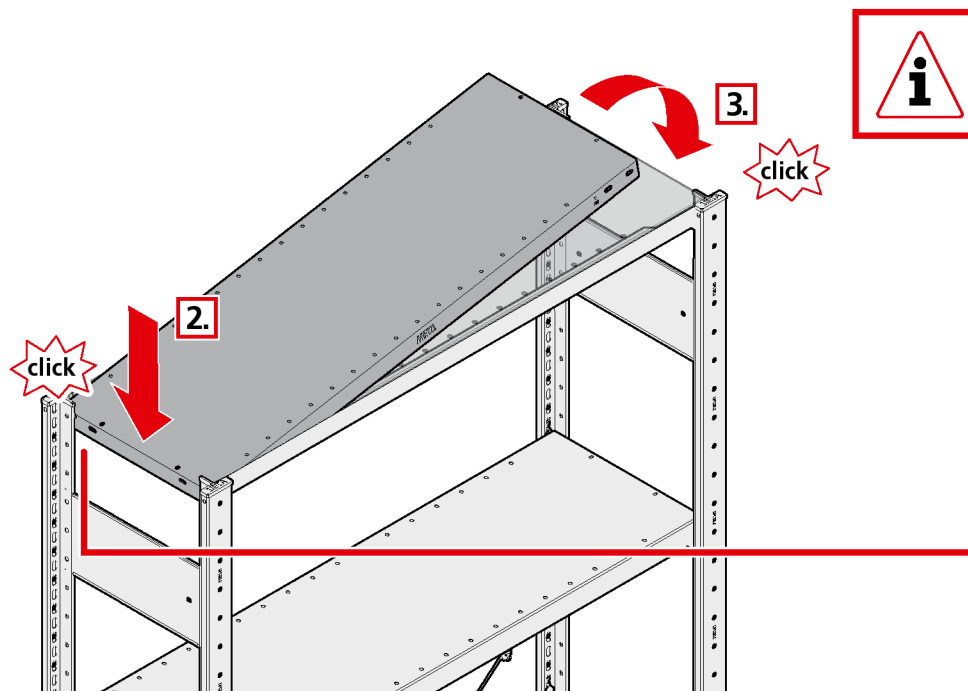
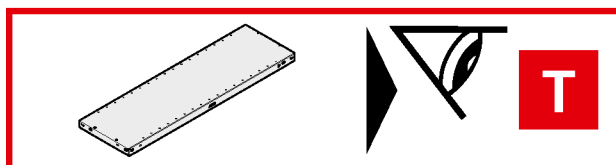


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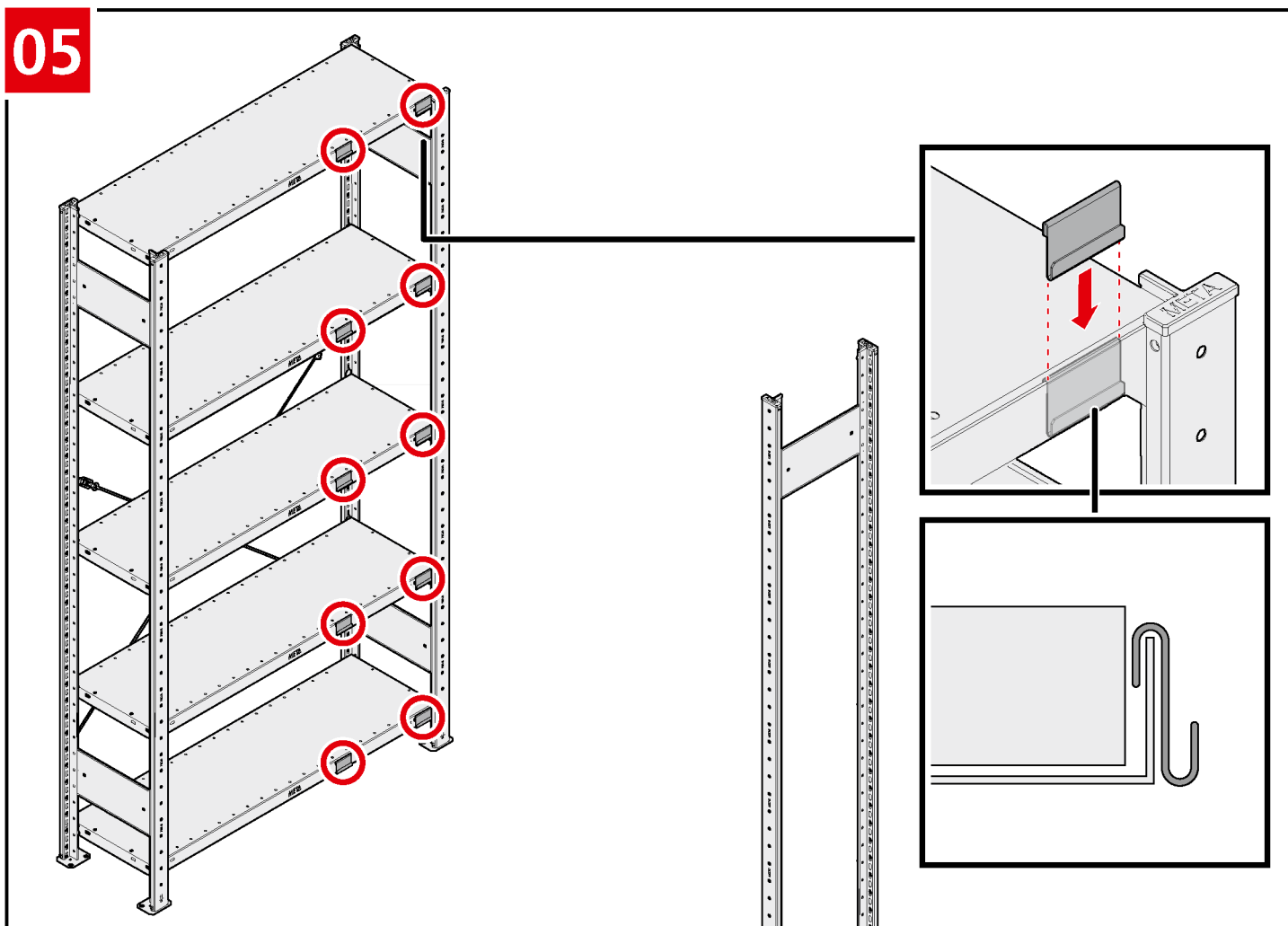


04

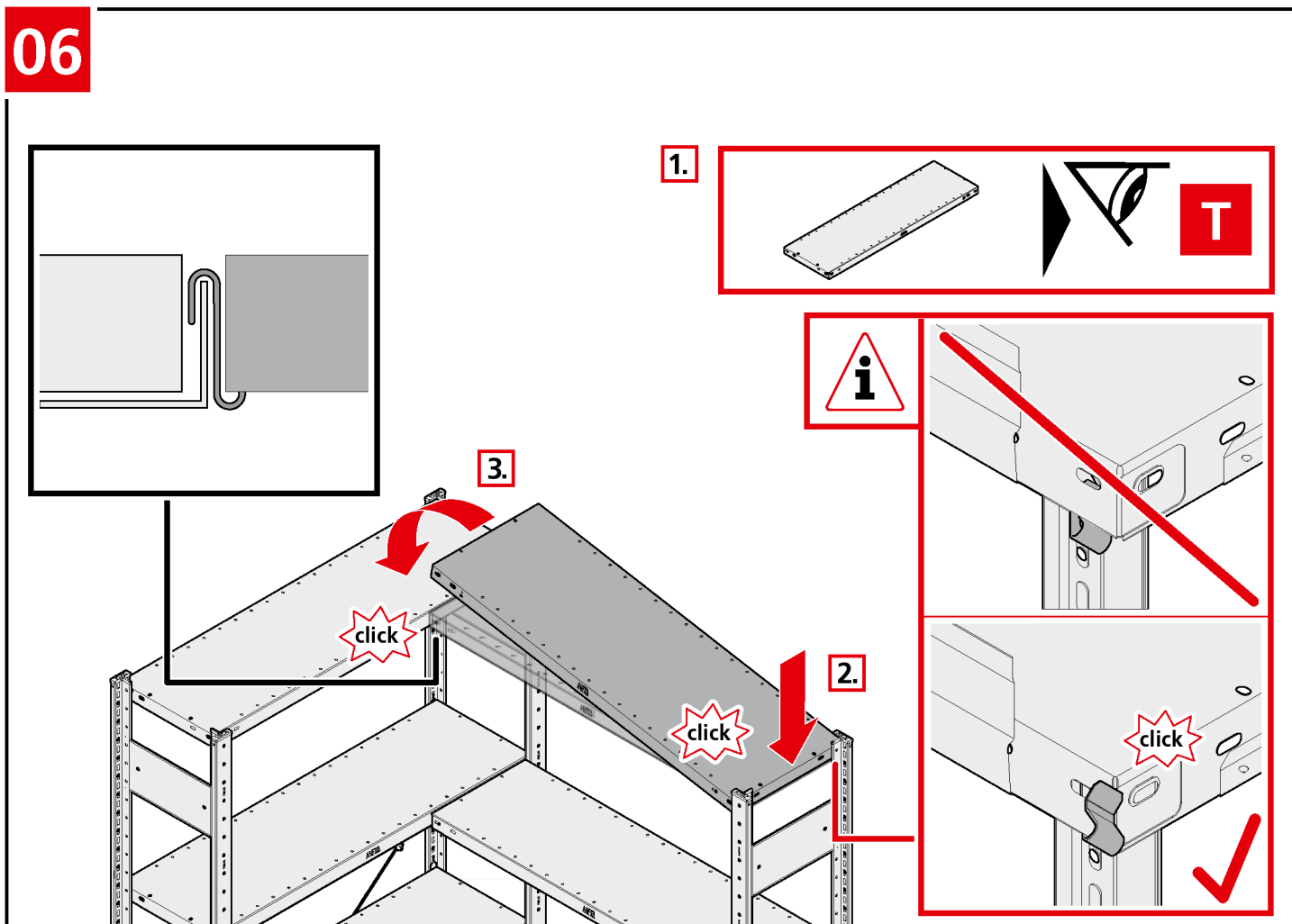
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05



06



Q

R

S

T

U

V

W

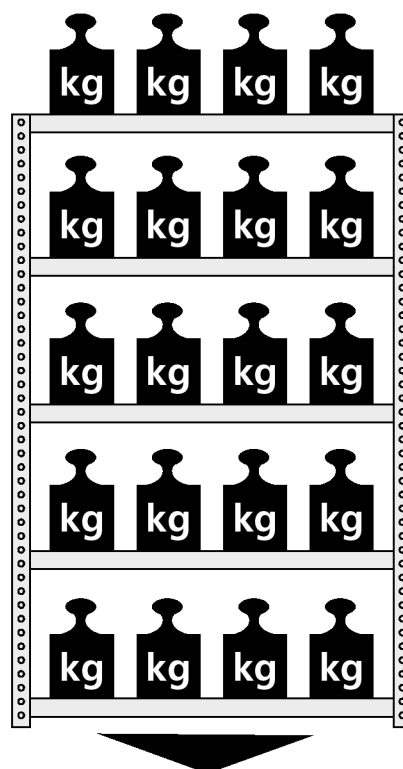
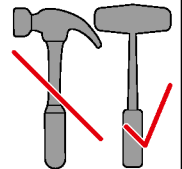
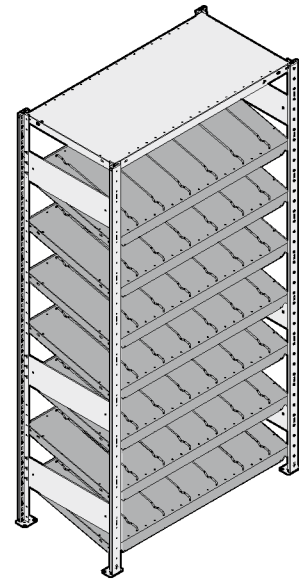
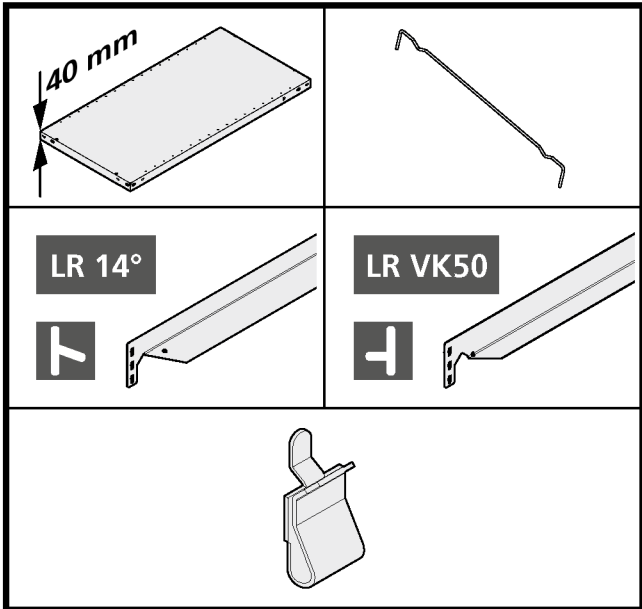
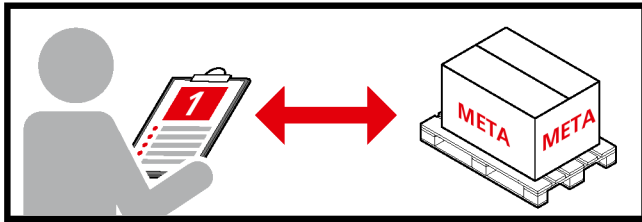
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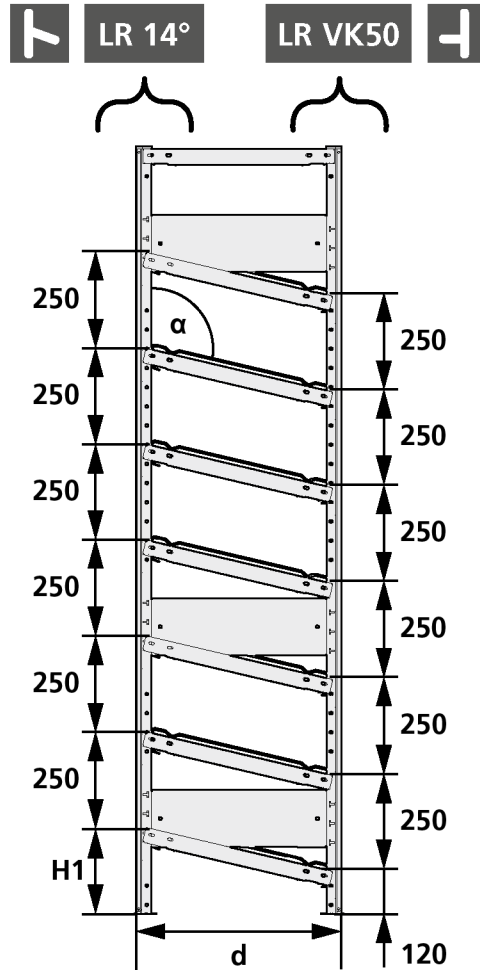
Y



LR 14°

LR VK50

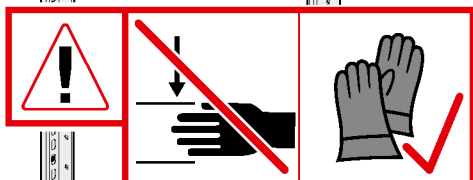
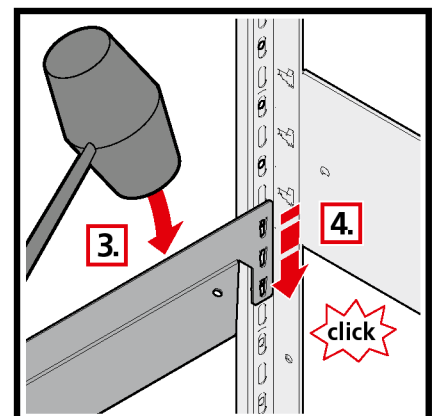
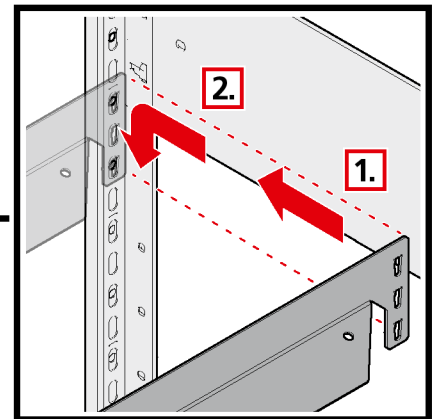
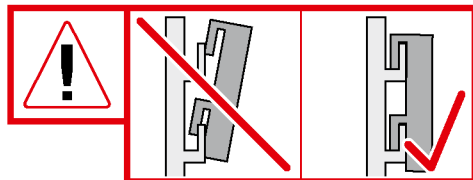
 $\leq 200 \text{ kg}$ $\leq 200 \text{ kg}$ $\leq 200 \text{ kg}$ $\leq 200 \text{ kg}$ $\leq 200 \text{ kg}$ $\Sigma F \leq 1800 \text{ kg}$



d	H1	α
300 mm	195 mm	≈ 17°
400 mm	195 mm	≈ 12°
500 mm	220 mm	≈ 12°
600 mm	245 mm	≈ 13°
800 mm	270 mm	≈ 12°

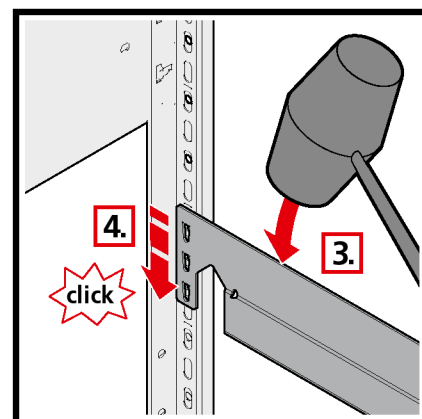
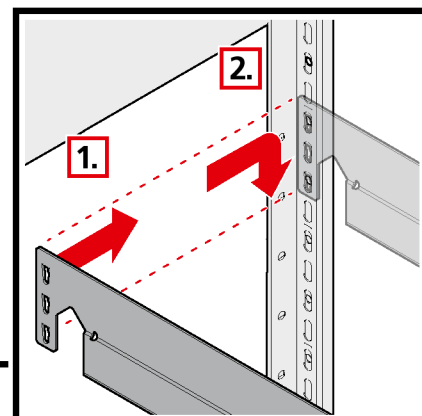
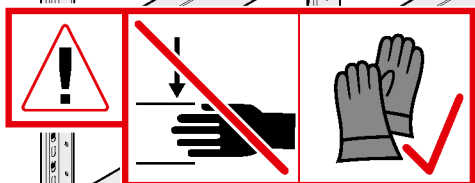
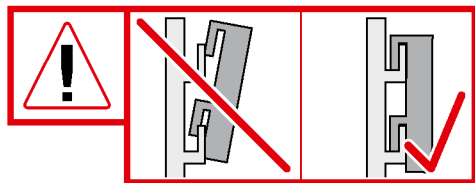
01

LR 14°

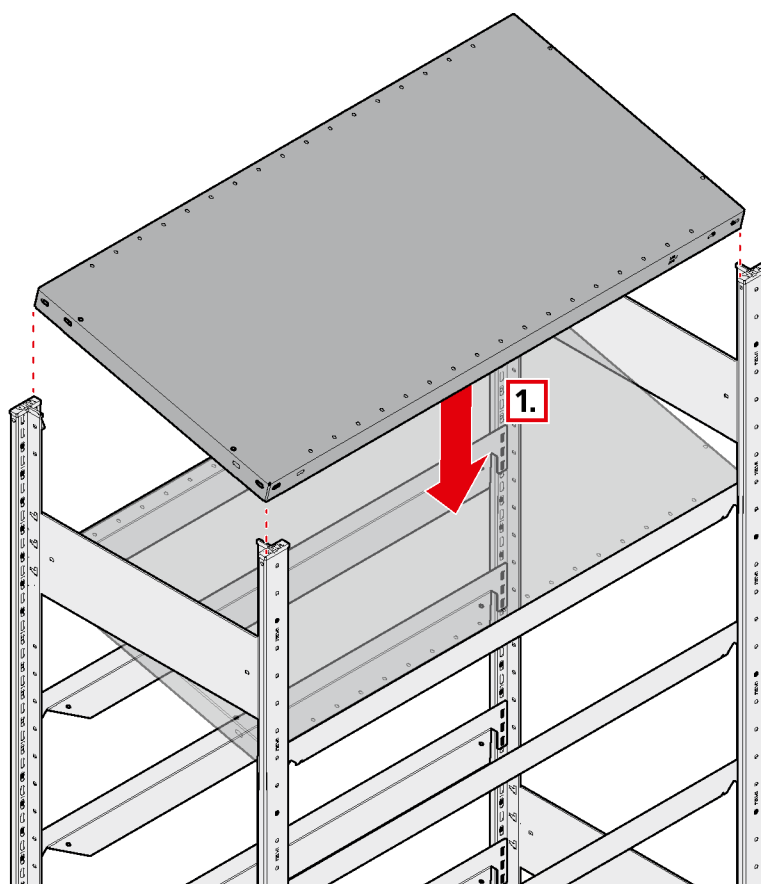


02

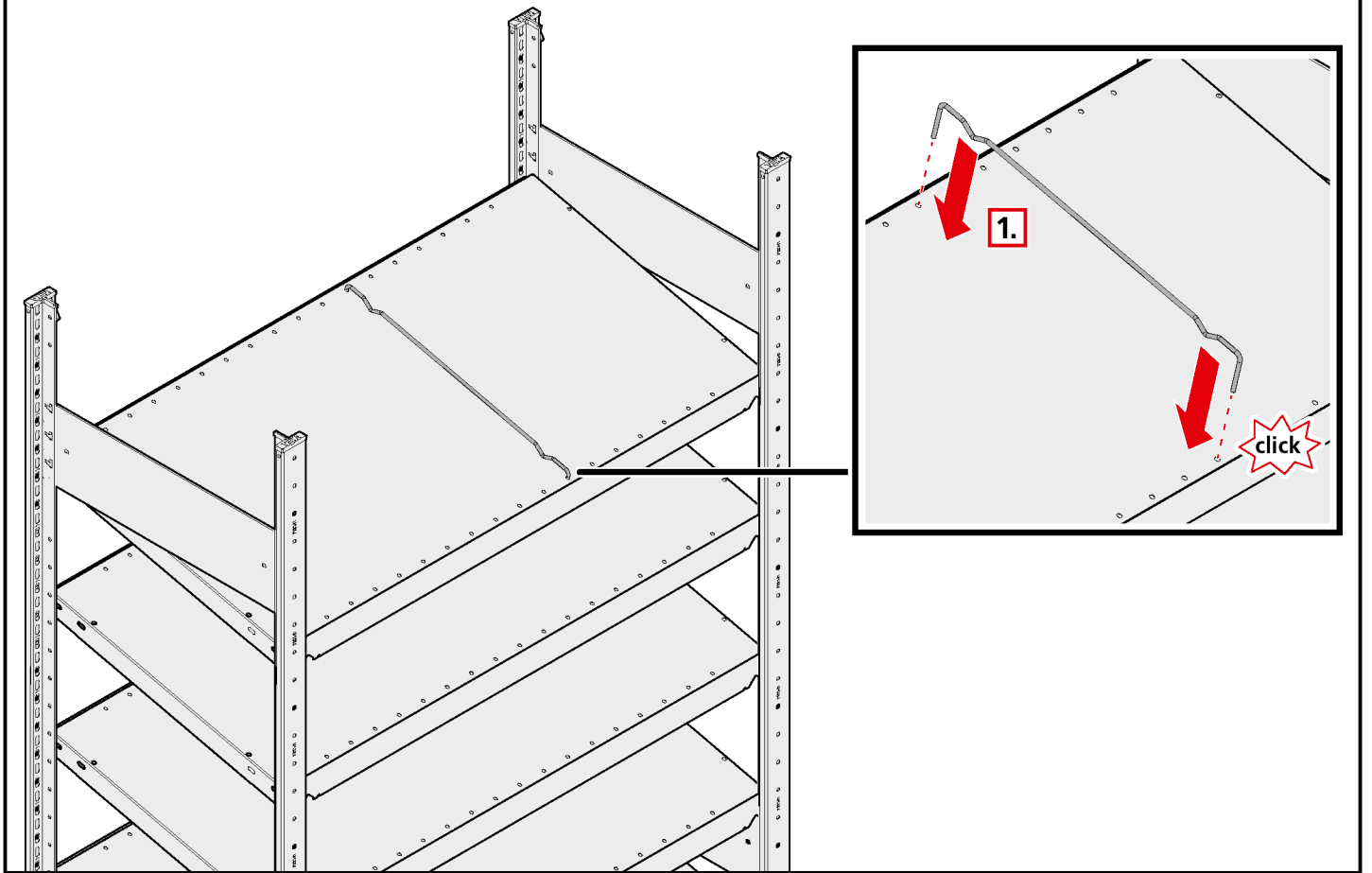
LR VK50



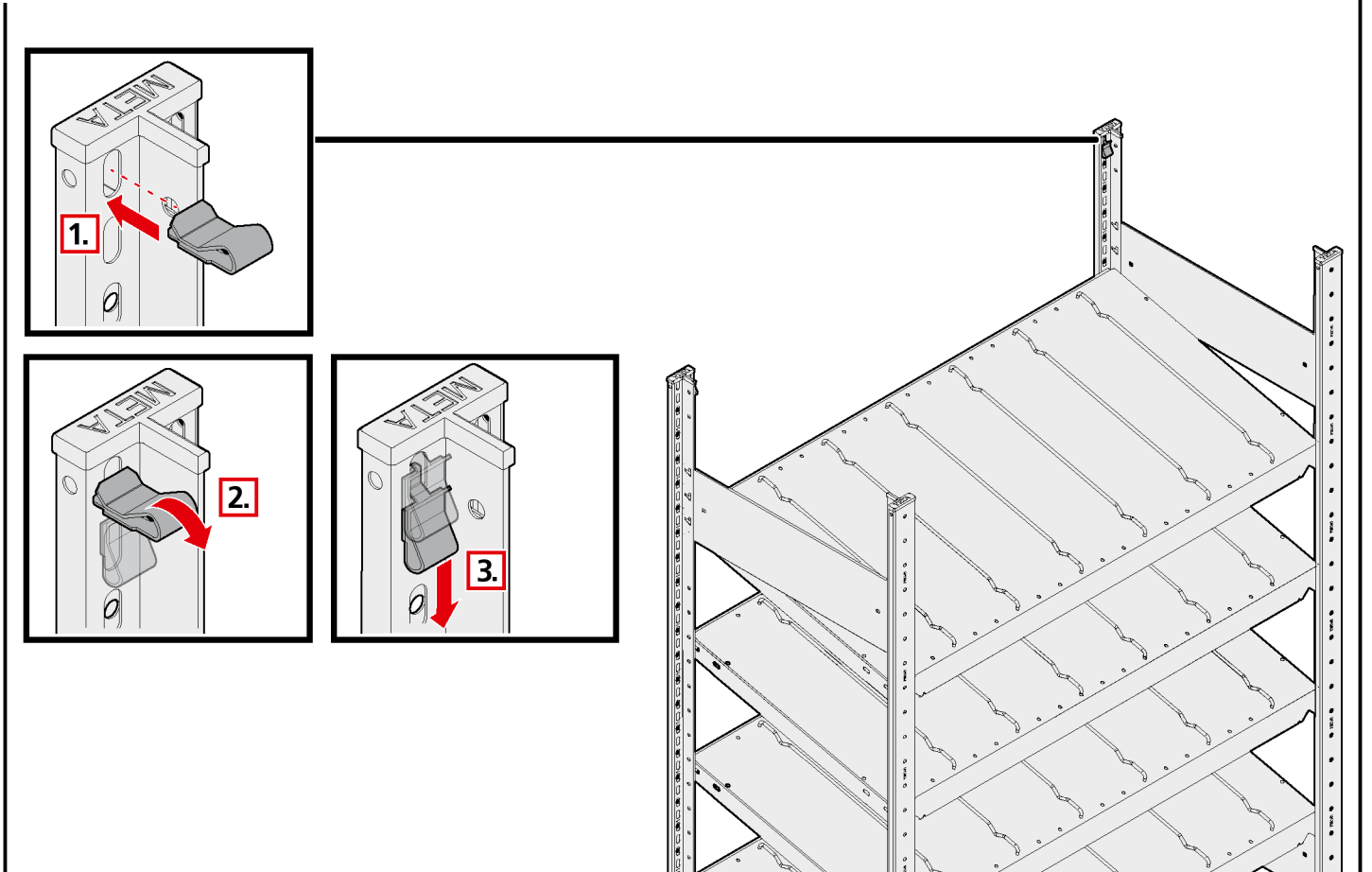
03

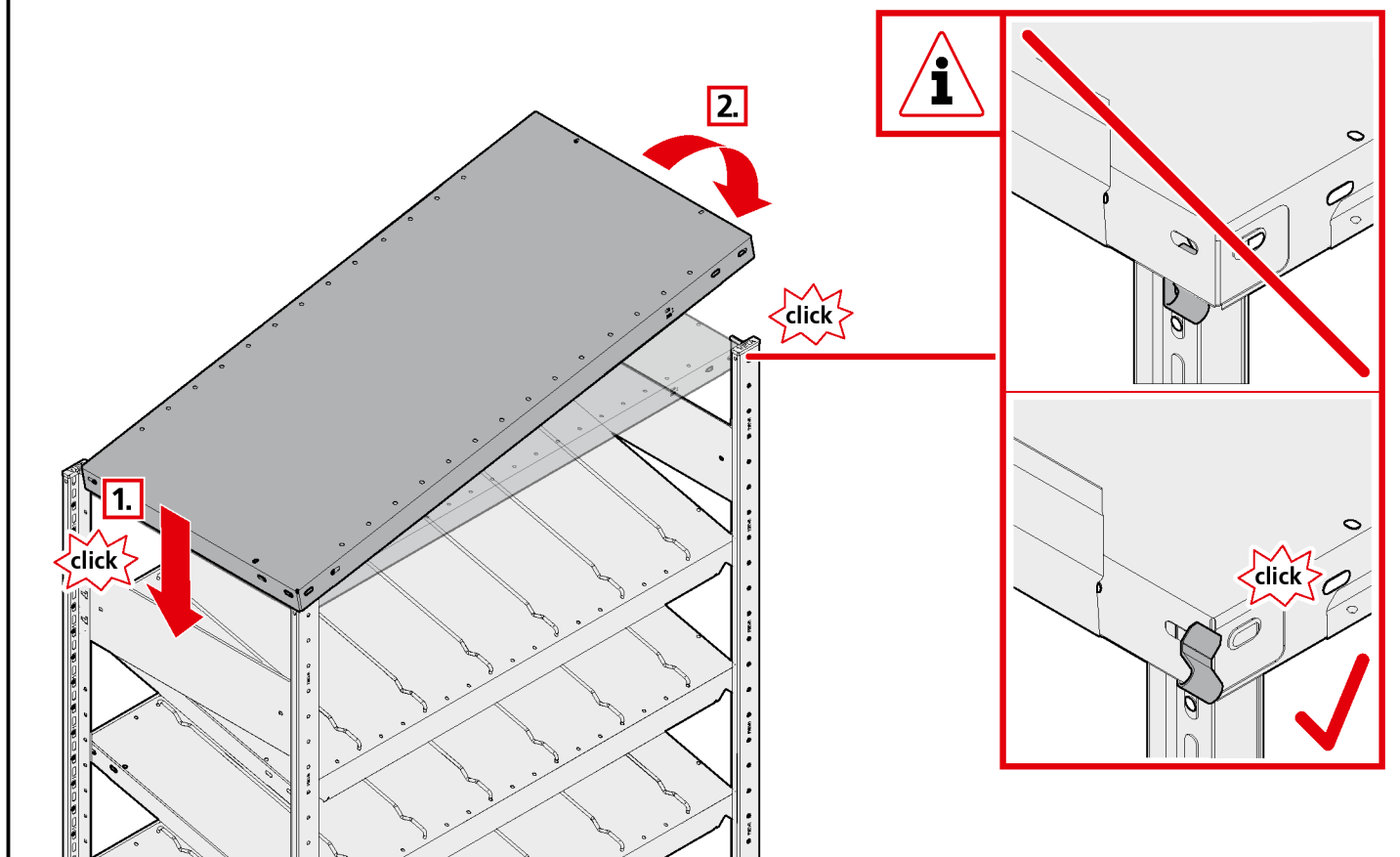


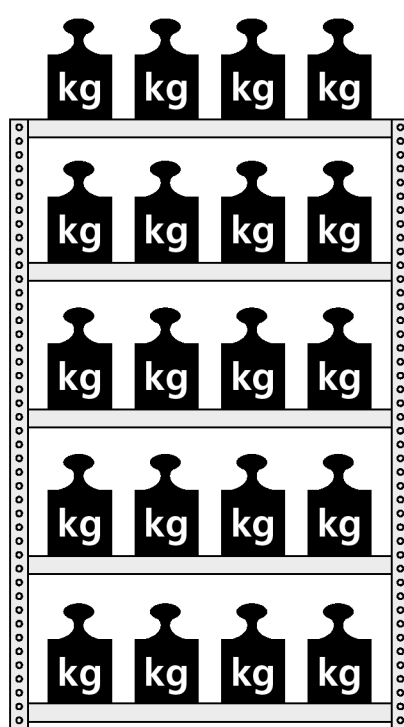
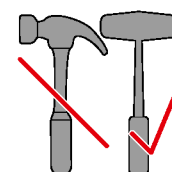
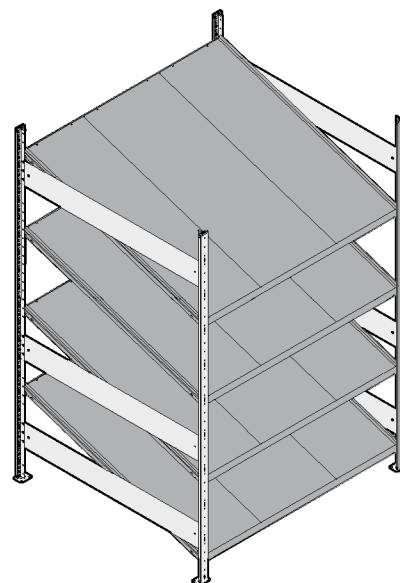
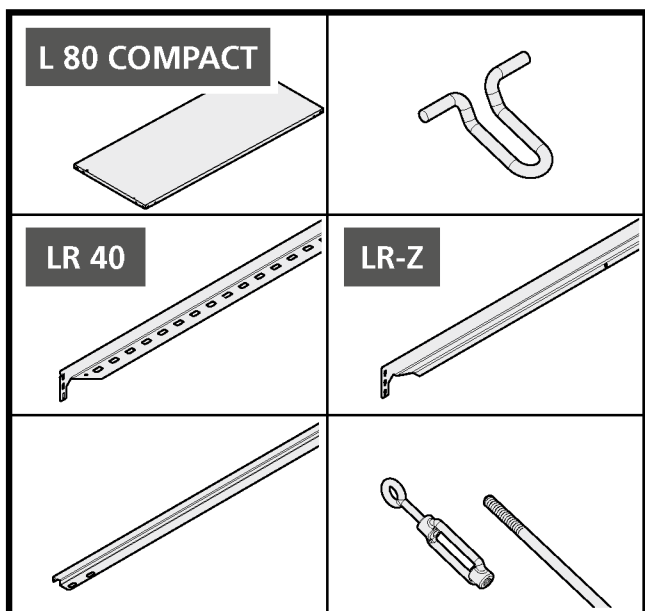
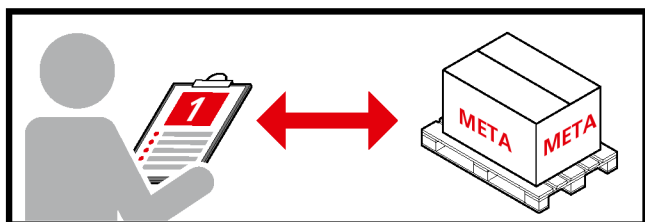
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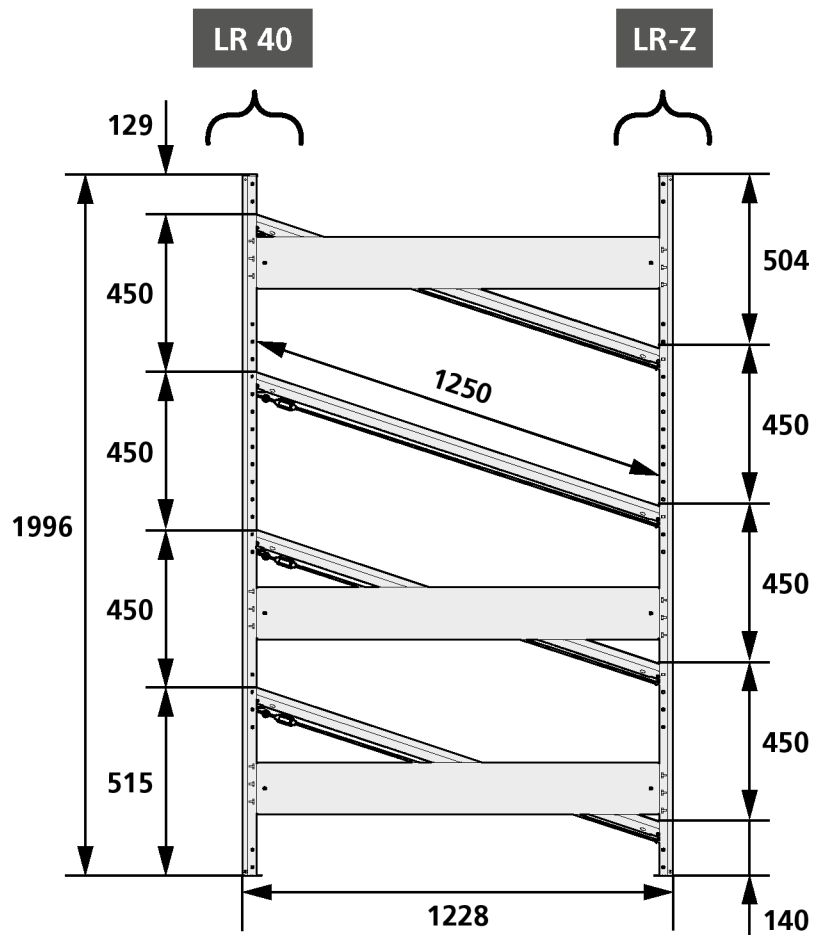


05



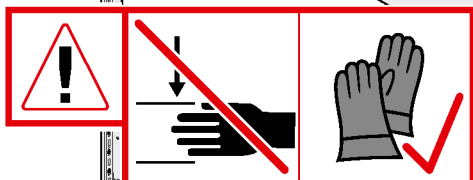
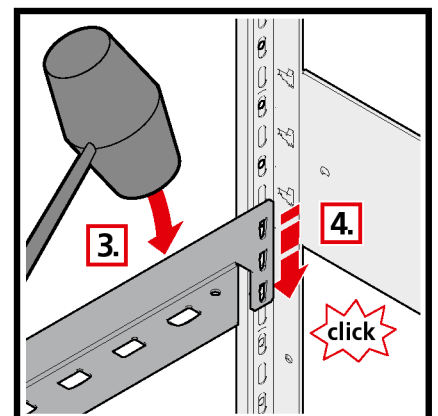
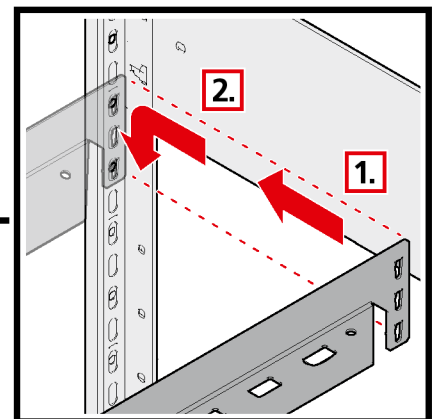
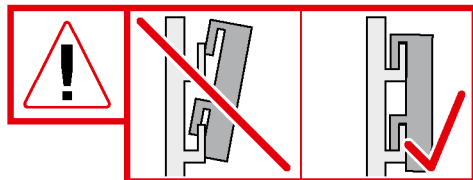


 $\leq 200 \text{ kg}$ $\leq 200 \text{ kg}$ $\leq 200 \text{ kg}$ $\leq 200 \text{ kg}$ $\leq 200 \text{ kg}$ $\Sigma F \leq 1200 \text{ kg}$



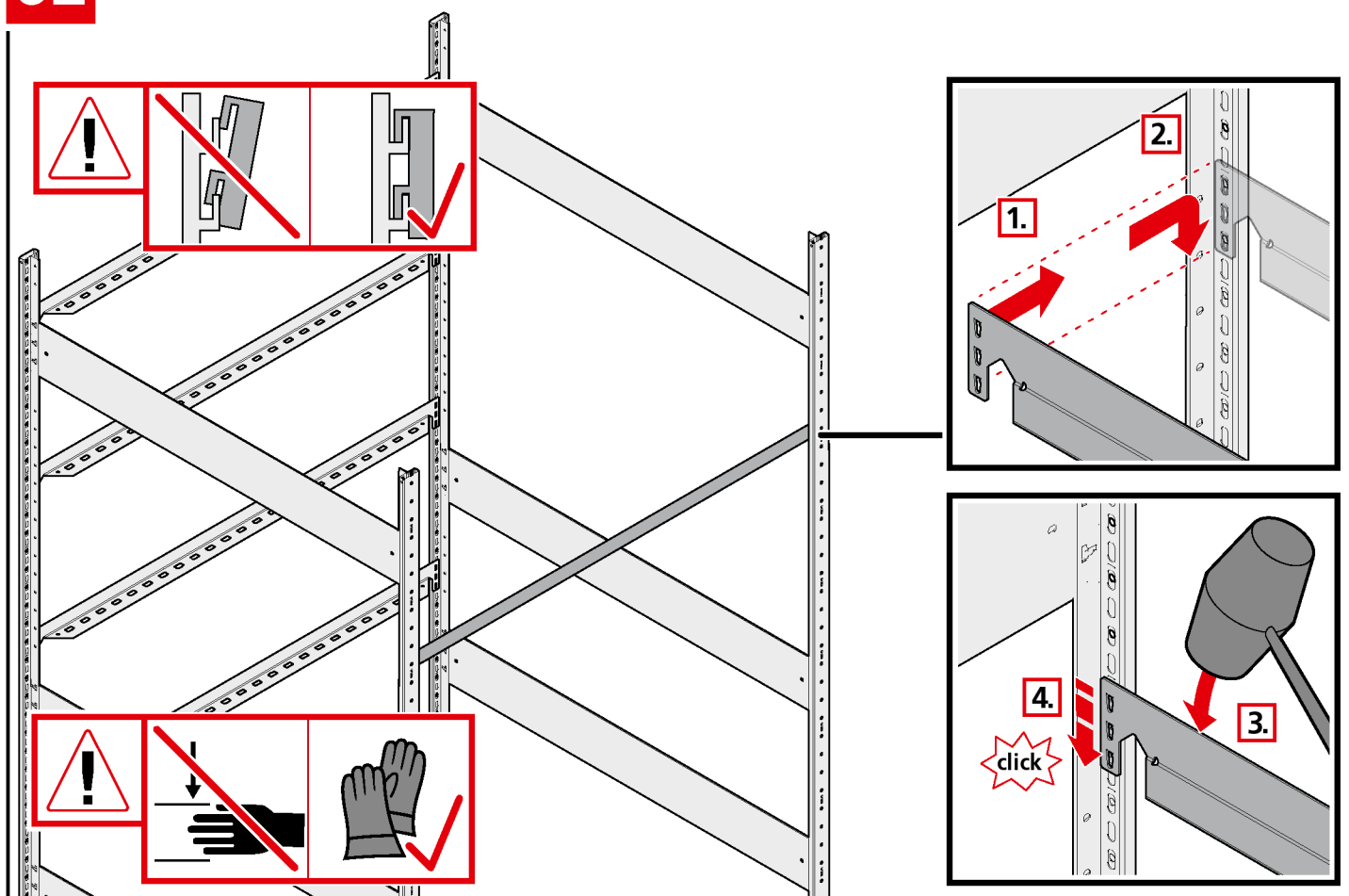
01

LR 40

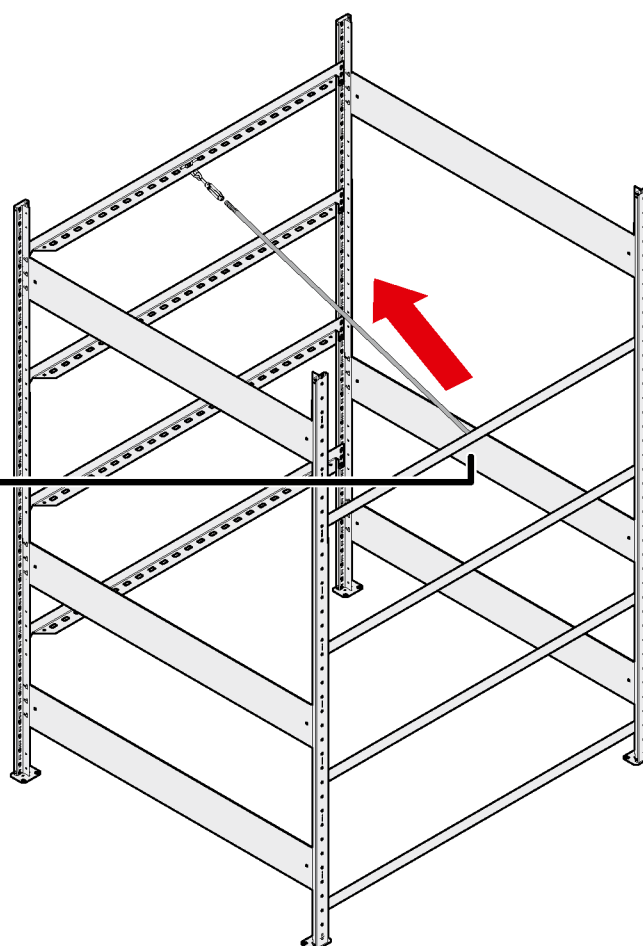
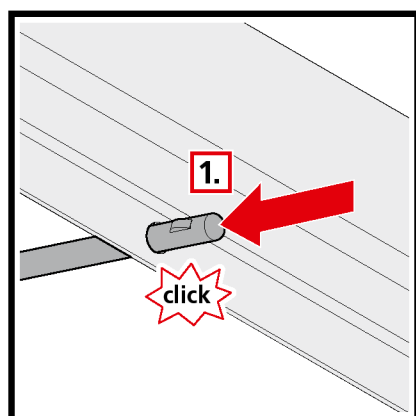


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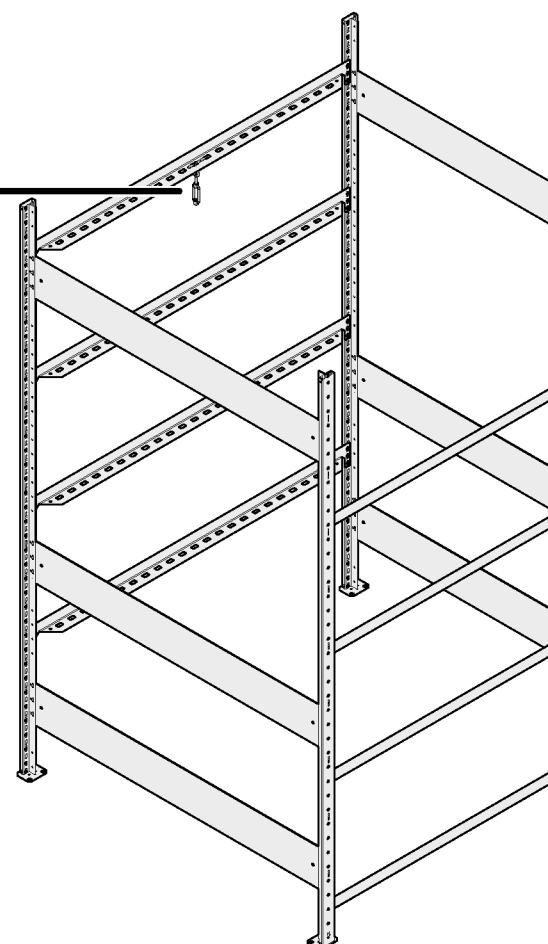
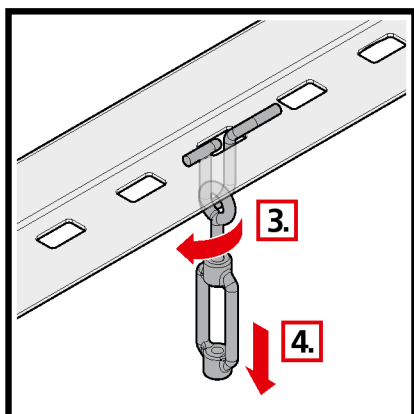
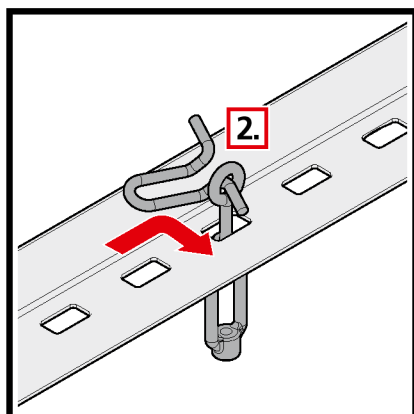
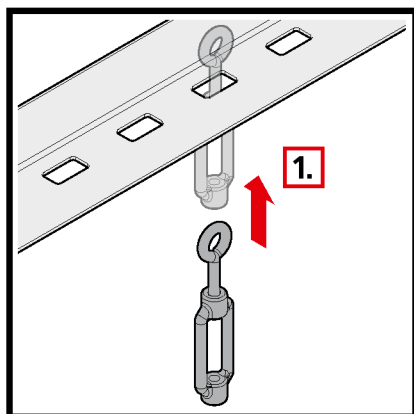
LR-Z



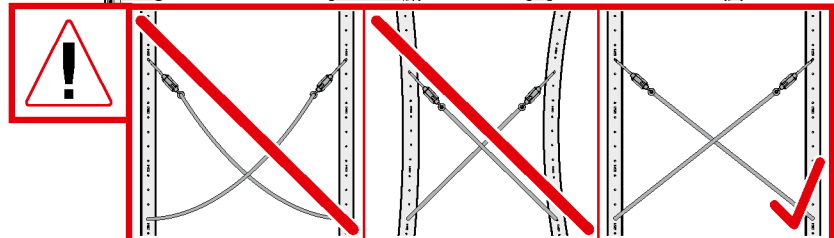
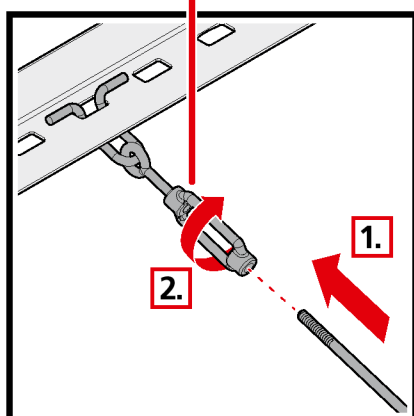
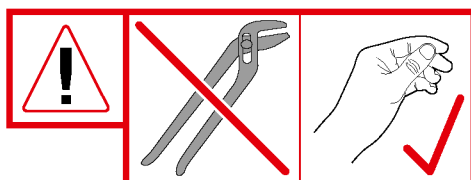
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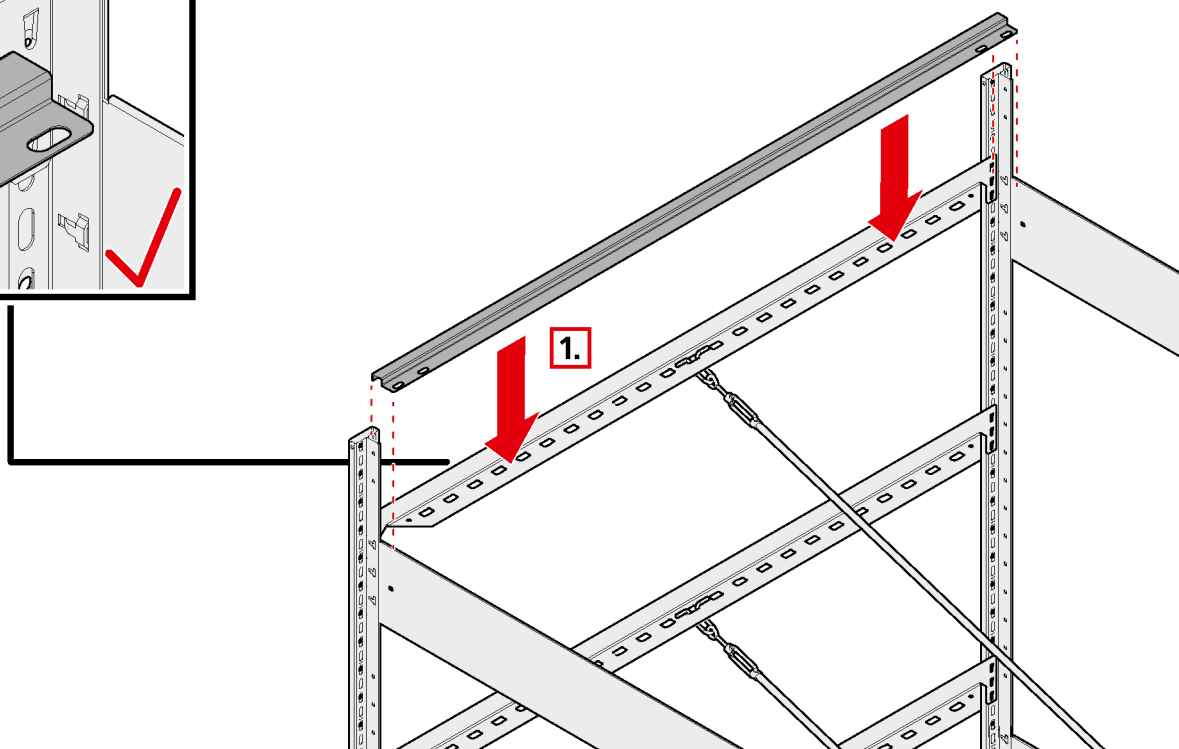
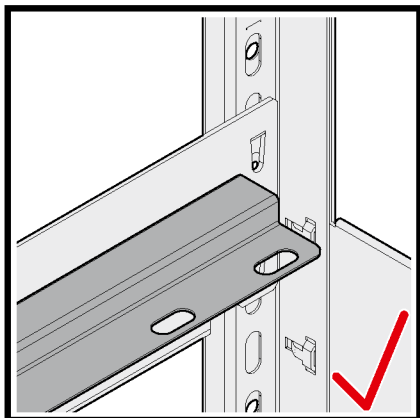
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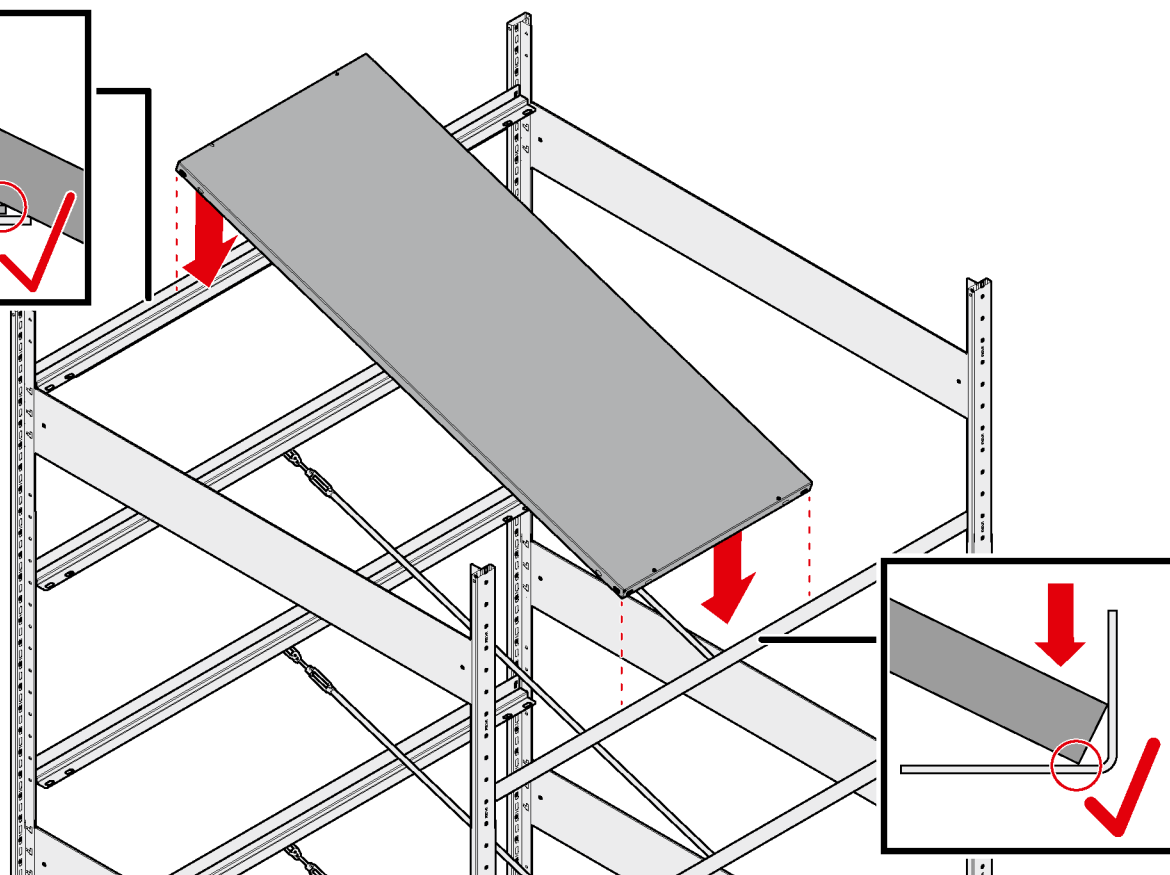
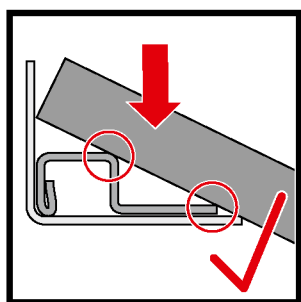
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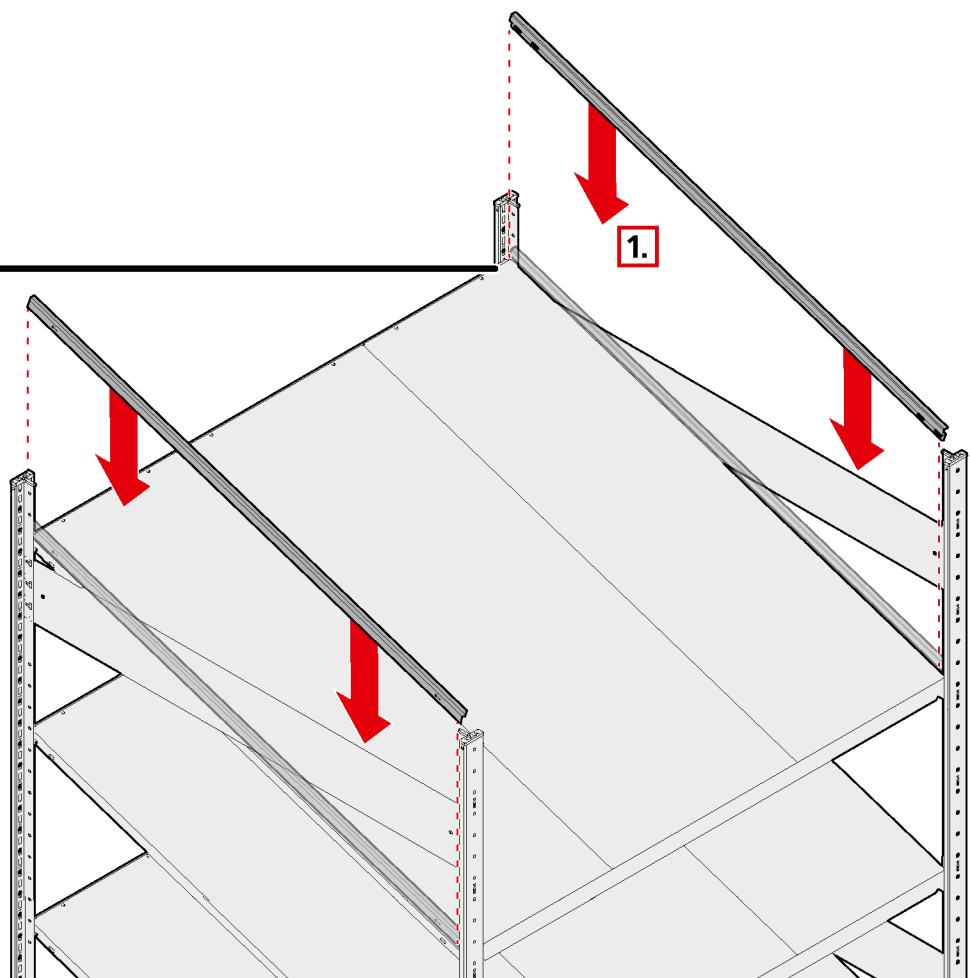
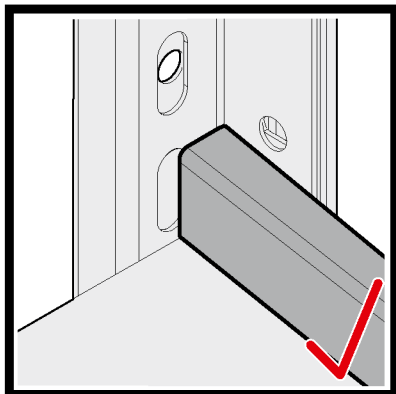


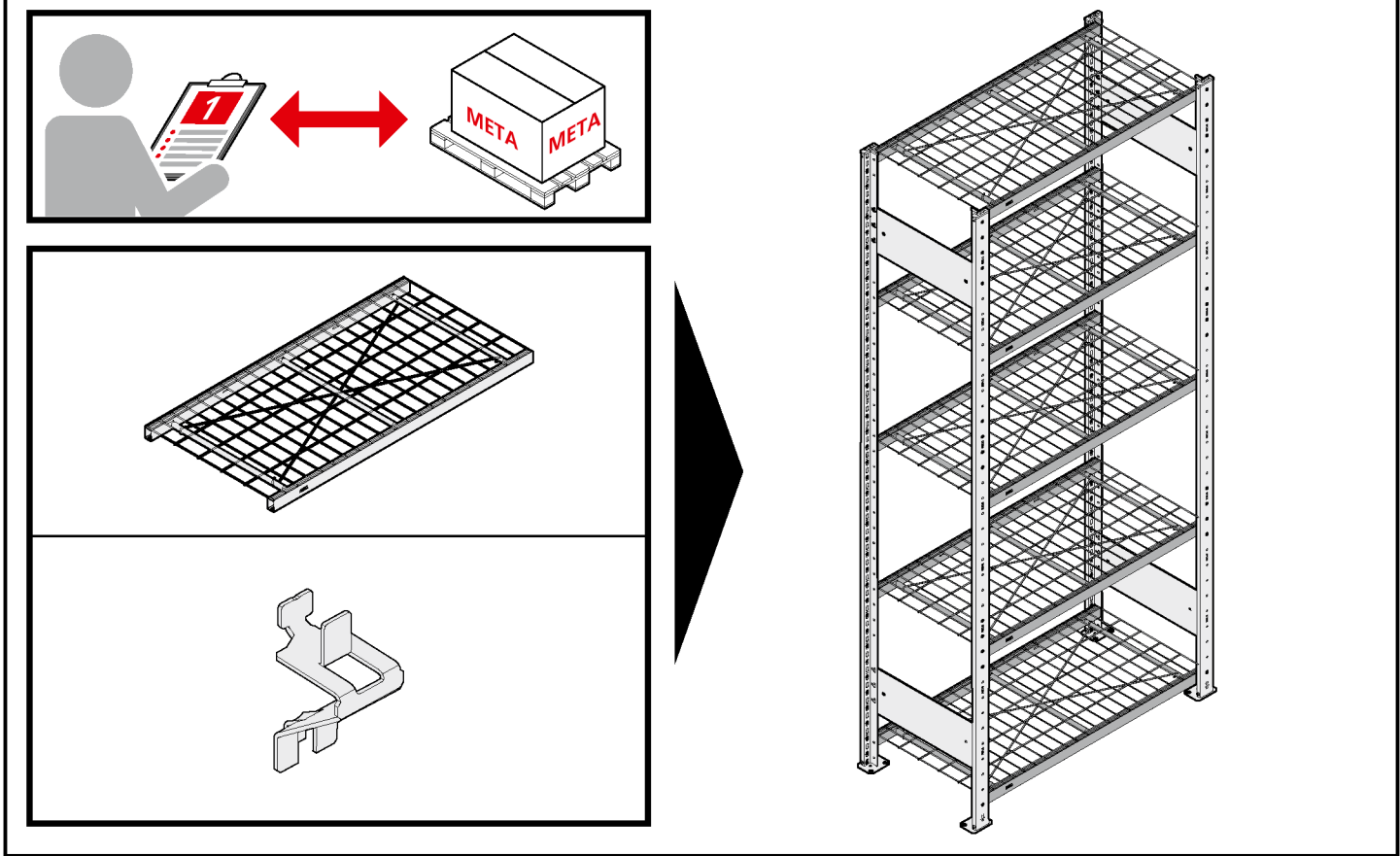
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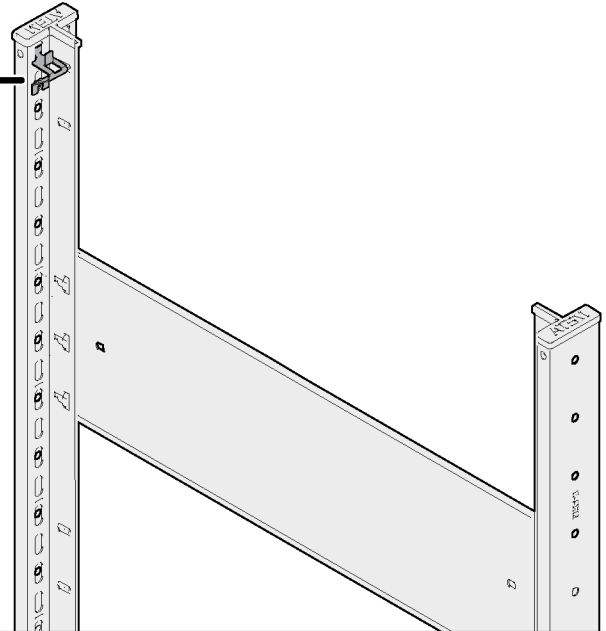
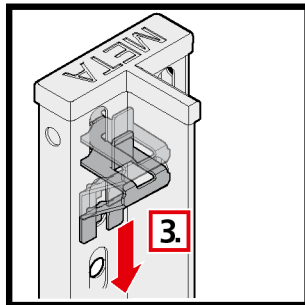
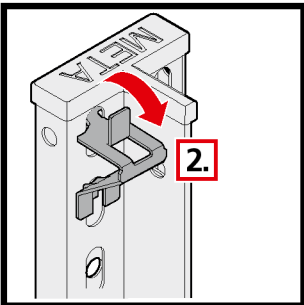
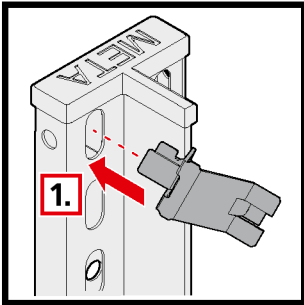
07



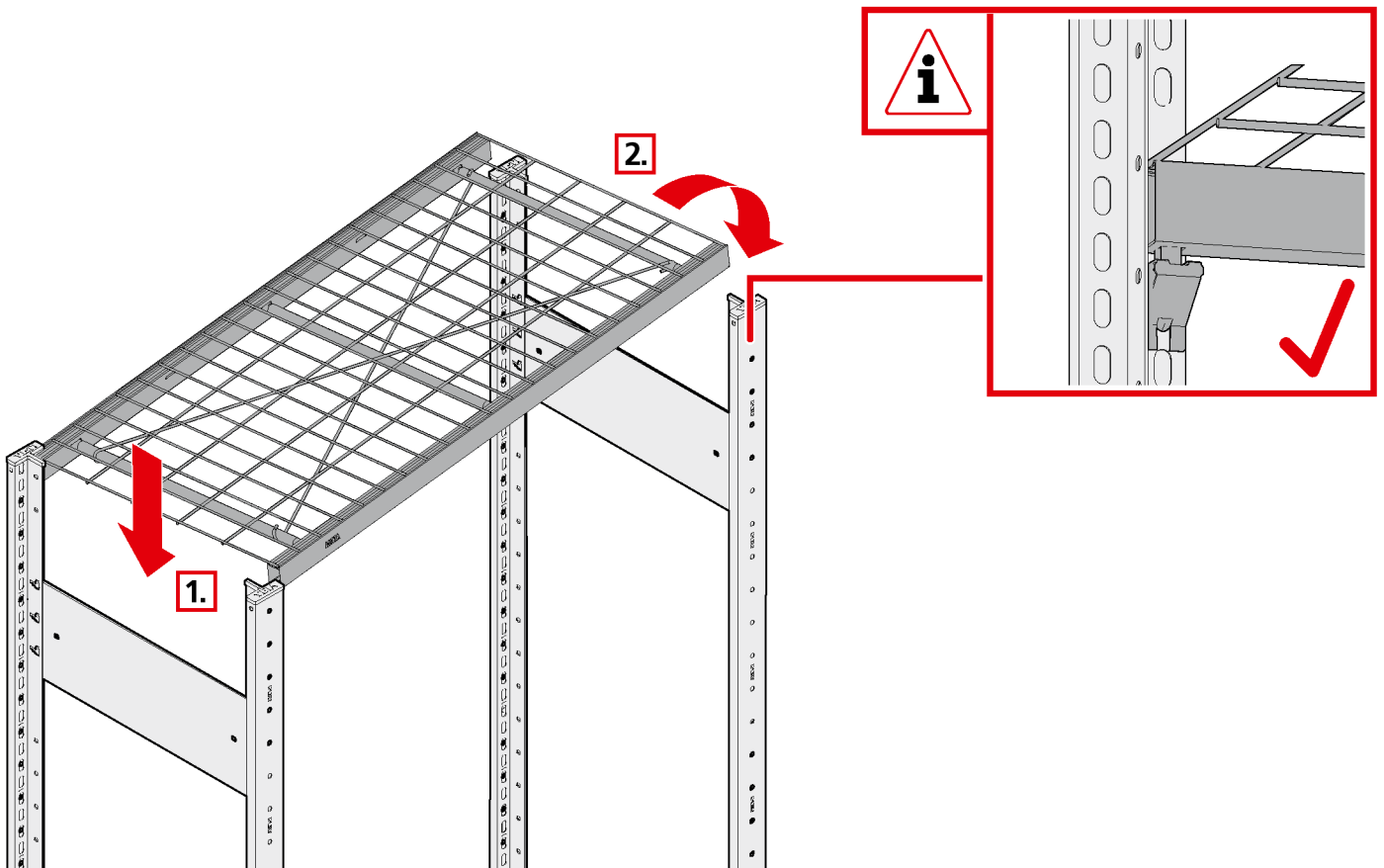




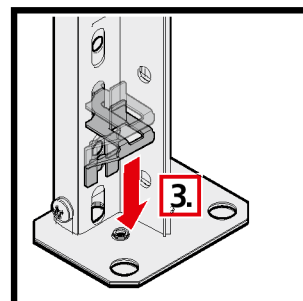
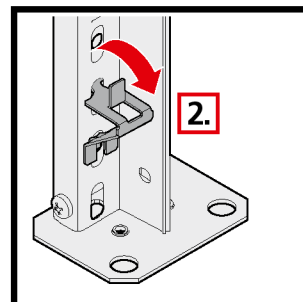
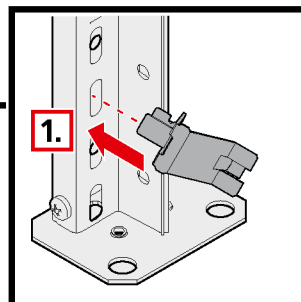
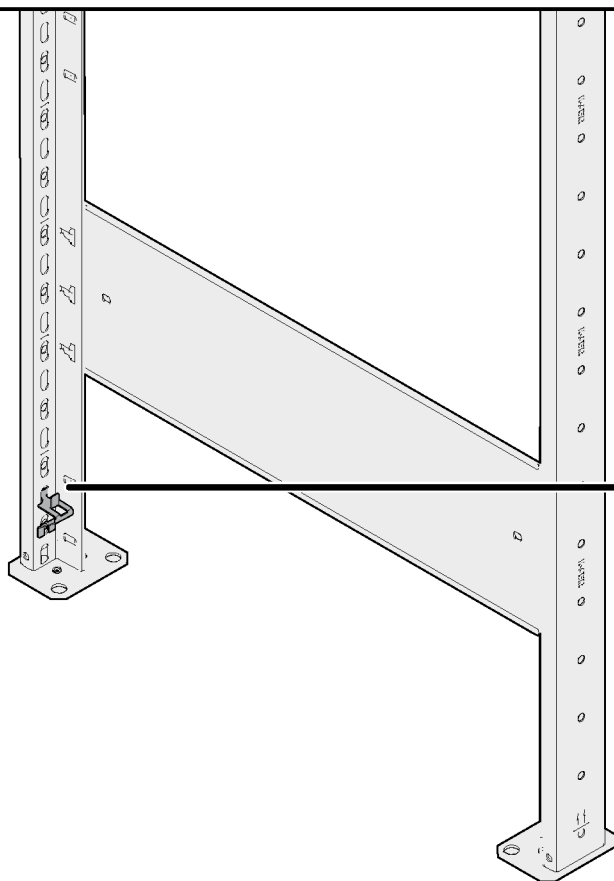
FT x FB (mm)	F
300 x 1000	150 kg
400 x 1000	
500 x 1000	
600 x 1000	
600 x 1300	
800 x 1300	



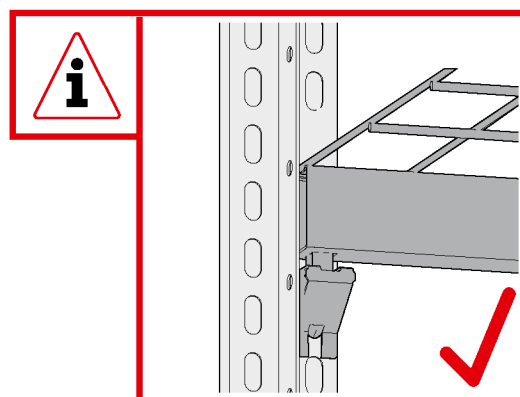
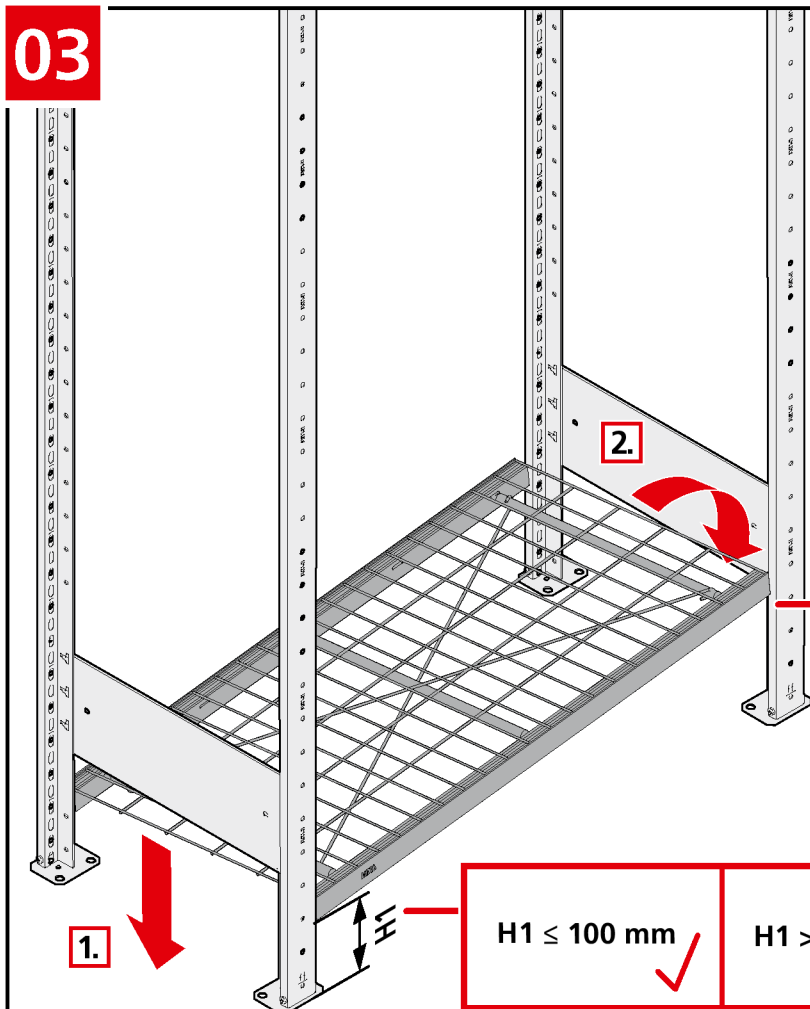
01



02



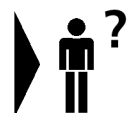
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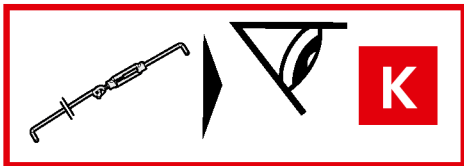
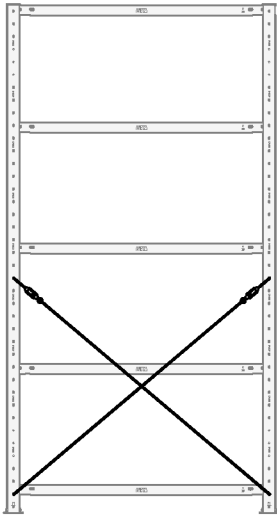
1.

$H1 \leq 100 \text{ mm}$ ✓

$H1 > 200 \text{ mm}$ ➡

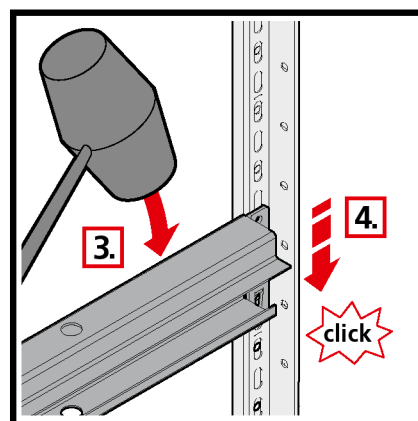
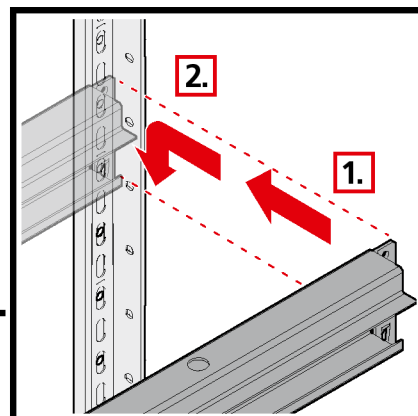
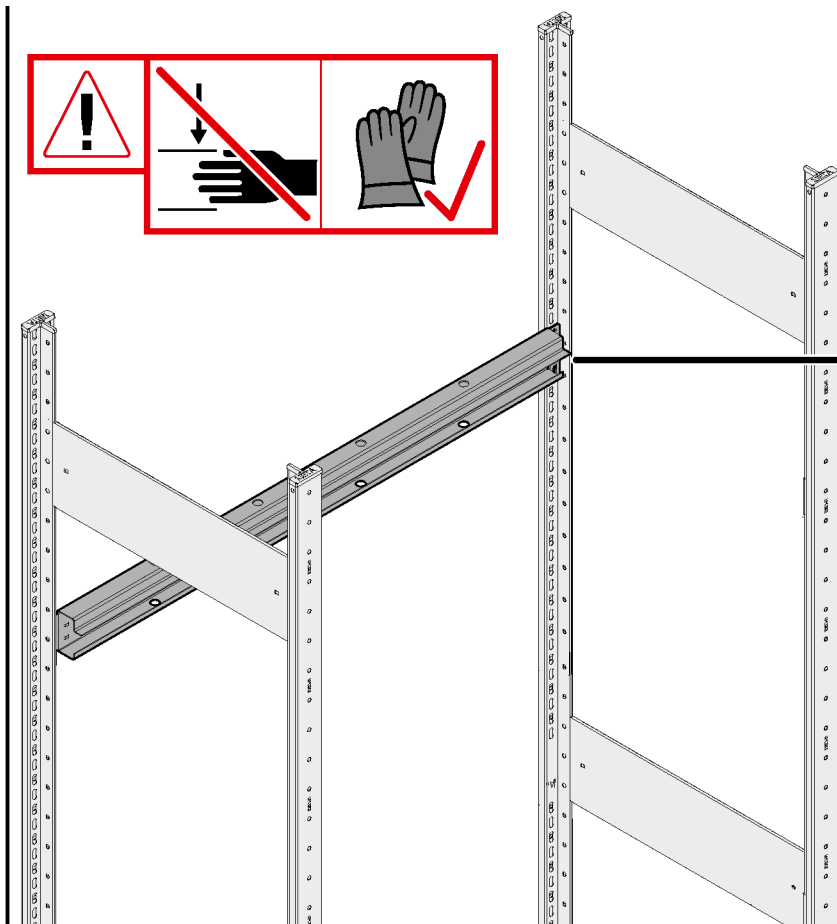
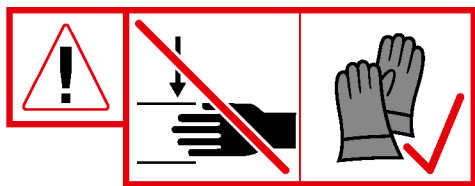


+49 2932 9570

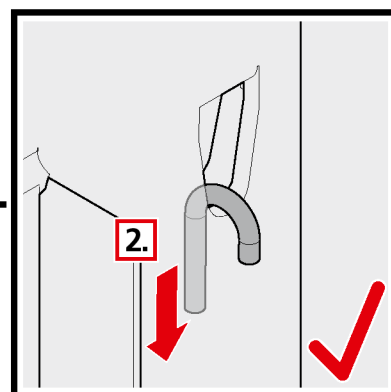
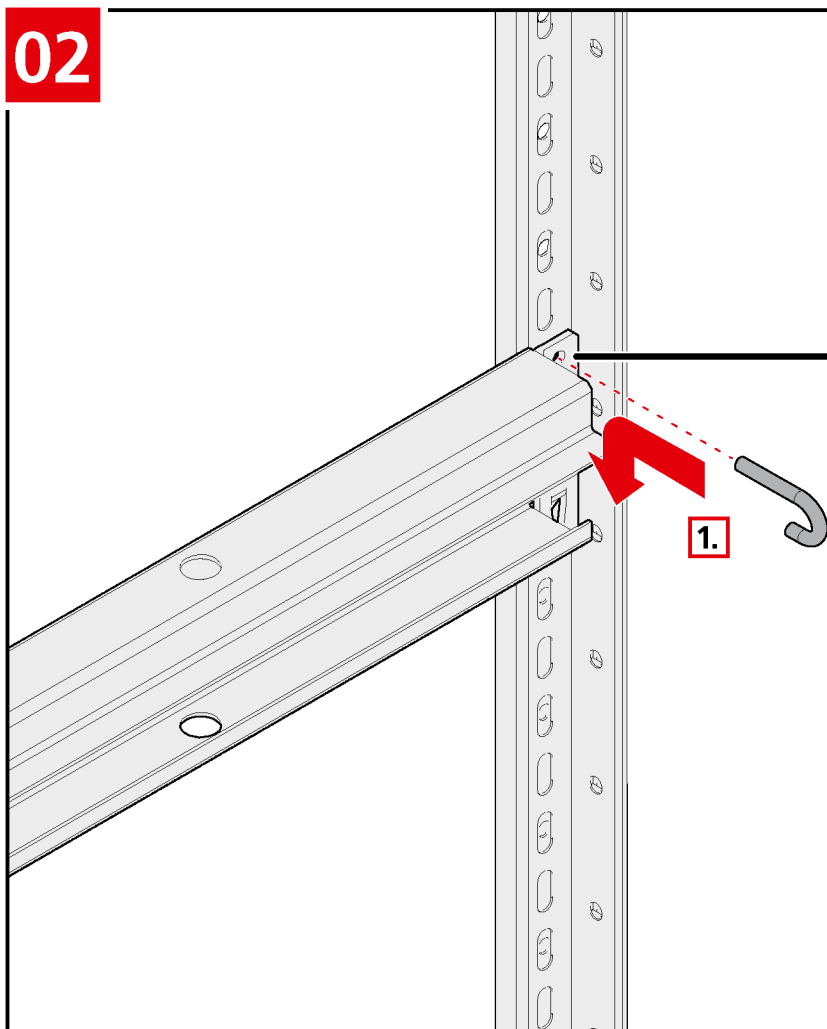


FL x FT (mm)	1000 x 800	2 x	4 x	1 x
	1300 x 800	2 x	4 x	1 x
	2000 x 800	2 x	4 x	2 x
F (kg)	400			

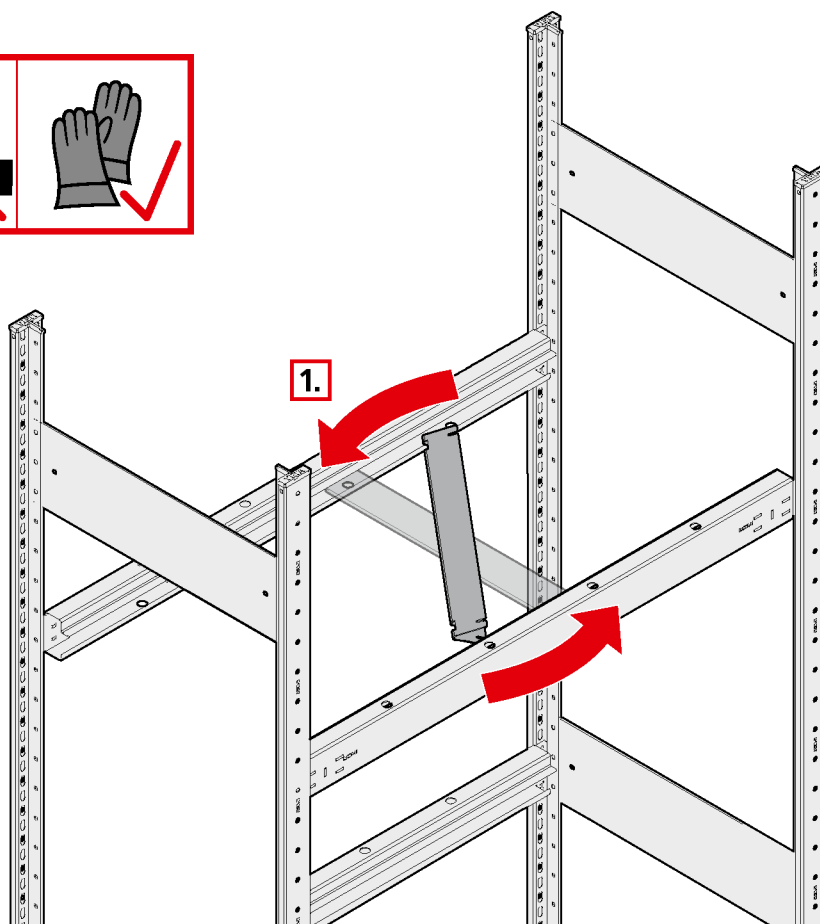
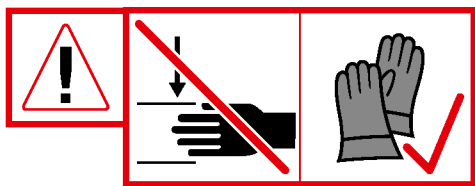
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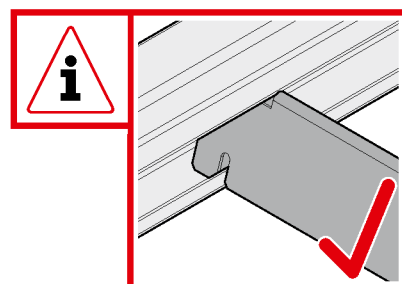
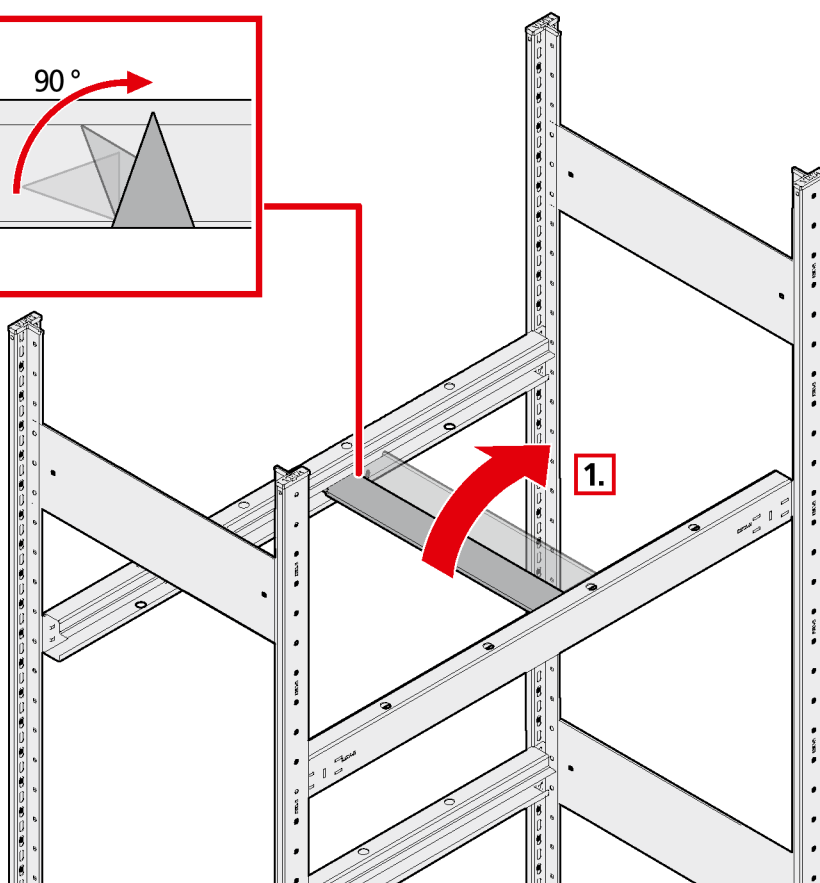
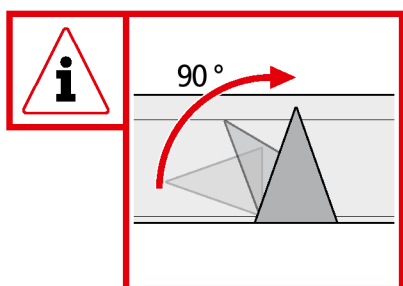
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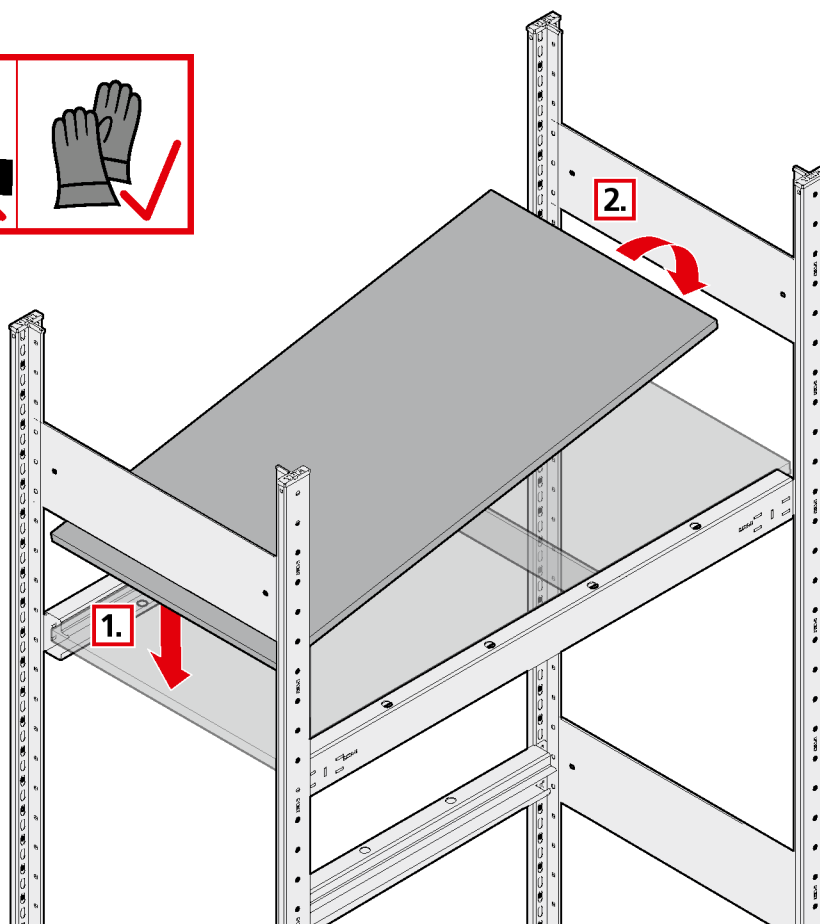
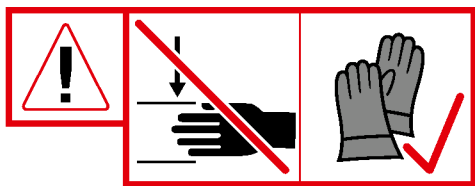


03



04







Das Lagersystem

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