

MEKA INSTALLATION INSTRUCTIONS

EXTENSIONS, SUPPORTS AND COVERINGS FOR
CABLE LADDERS, CABLE TRAYS, WIRE MESH
TRAYS AND LIGHTING SUPPORT RAILS



Version 1.3

Special cases

Sliding nuts SMT and TB	4
Gate support PRT	5
Earthing terminal PE	6

Cable Ladders

Extensions	8
Joint SSU or SSR.....	8
Joint SSR or SSU.....	9
Joint SSA and bolt set RS KSF.....	10
Flexible joint NL	11
T-branch bracket VF	12
Flexible vertical bracket VEF2	13
Bend KSF90	14
Flexible joint KSF-NL	15
T-branch bracket VFF	16

Supports	17
Bracket KKF	17
Bracket KK	18
Wall support VK	19
Ceiling support TP1	20
Ceiling support TP2-L	21
Ceiling support TP2-P	22
Intermediate support HK13	23
Ceiling bracket HK2	24
Intermediate support MK	25
Gate support TPK	26
Mounting railis ASR, ASR-Land ASR-P and wall mounting rail AS WALL	27
Wall brackets VK2 and VK3	28
End bracket ÄF	29

Cross-sectional area installations	30
Cable clamp CCA	30
Separation plate AP	31
Mounting plates DPA/DPB and DPA-0/DPB-0	32
Low voltage gutter SR	33

Covering	34
Cover KRL-KS	34
Cover KRL-KSX	35
Covers KRL-KSV and KRL-KSVI	36
Bottom cover PPU	37
End plug ÄP	38

Cable Trays

Extensions	40
T-branch bracket TKU	40
Joint RSS	41
Adjustable corner piece SRS	42
X-Piece RX	43
Corner piece RS90	44
Supports	45
Center bracket RMK	45
Wall bracket RVK and SVK	46
Covering	47
End plate P KRA	47

Wire mesh trays

Extensions	50
Snap in connectors WMT SC1 and WMT SC2 ..	50
WMT connector set CL and connection plate WMT UC1D incl. WMT corner piece	51
WMT connection plate UC1D and connector plated WMT CL1	52
Connection plate WMT UC1	53
Supports	54
Wall bracket WB1	54
Intermediate supports WMT CSF-6 and WMT CS-10	55
Wall support MEK-SK	56
Wall support VKZ	57

Cross-sectional area installations	58
Mounting plate IP1.....	58

Lighting support rails

Extensions	60
T-branch bracket MEK-T	60
Supports	61
Intermediate support MEK RK and adjustable intermediate support MEK RPF	61
Covering	62
End plate MEK P.....	62
Extensions	63
Corner piece MEK KR.....	63
Corner piece MEK KU.....	64
Flexible joint MEK NL.....	65

The information in this publication is intended to present and illustrate generally acceptable installation methods for MEKA® cable management systems. These guidelines and information do not intend to cover all details or variations in each cable support system nor provide for every possible installation contingency. This publication does neither intend to replace the responsibility of the contractor and installer to acquire knowledge of and apply the valid laws, rules, regulations, and standards on electrical and cable support system installations in each individual project and site. The installation method shall always be finally approved by the construction site supervisor and relevant authorities.

General Safety Information

Take note of the following regarding cable management system installation:

1. Cable trays and ladders are intended to support cables only.
2. Cable ladders or trays are not allowed to be used as ladders or walkways. It is forbidden to attach safety harnesses or similar equipment to cable support products.
3. In installing cable management system, consider the load bearing capacities of each part as well as the strength of the fastening and surface materials. Do not exceed the manufacturer-specified maximum load.

Plastic components are not intended to be used as a load-bearing elements (supports and brackets) if not otherwise stated in instructions on installation.
4. Cable management systems shall always be installed by qualified persons familiar with standard electrical construction practices, electrical equipment and safety of electrical wiring systems to ensure safe and proper installations according to applicable standards, local laws, rules, and regulations.
5. Follow the manufacturer's instructions on installation and usage.
6. Impact wrenches or other impact tools shall not be used for tightening bolts to prevent overtightening and to ensure the products' corrosion resistance.
7. Products must be stored and handled appropriately.
8. In MEKA® and unipro® systems shall only be used products intended to be used in the MEKA® and unipro® systems.
9. Make sure that mounting accessories and mounting surface meet the required strength requirements.
10. The maximum allowed (max.) load [kg] is the largest allowed load for the product in question. Verify the maximum allowed loads of each

product in their product data sheets. The manufacturer assumes no liability for wrong product choices or for direct or indirect damage resulting from incorrect use.

General installation instructions

Cable management system shall be performed in a manner that the load does not exceed the manufacturer's specified maximum load, or deflection of each cable ladder/tray span does not exceed 1/100th of the span. In practice, a bend of 1/100 means that with, for example, a three-meter span, the deflection may not exceed 30 mm. When calculating the deflection, include roughly 50% of the existing load as additional allowance.

Sufficient gap for heat expansion shall be left between cable ladders and cable trays as well as at their ends. Steel's coefficient of heat expansion is 0.000012m/°C. Following formula can be used to calculate the heat expansion: change in temperature x 0.000012 x length. If, for instance, the length of your tray system is 100 m and the temperature changed by 40 °C, the change in length is $40 \times 0.000012 \times 100 = 0.048$ m, i.e. 48 mm.

The load bearing capacity of the brackets as well as the strength of the mounting accessories and surface materials in cable ladder and cable tray installations shall be considered.

In installation sites where vertical cable ladders are prone to mechanical damage, the ladders shall be protected with a cover of 1.5m in height.

Installation accessories

Installation accessories that are placed on cable ladders or cable trays, such as junction boxes, must be securely attached and in a manner that the accessories are not located in the area intended for cables. MEKA® mounting plates are recommended to be used, when needed.

Use of high-current cable systems

High-current cables can be installed to KS80 and KSF80 cable ladders when using cable clamps intended for that purpose.

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INFORMATION, TEST RESULTS AND EXAMPLE
INSTALLATIONS ARE AVAILABLE ON OUR WEBSITE.

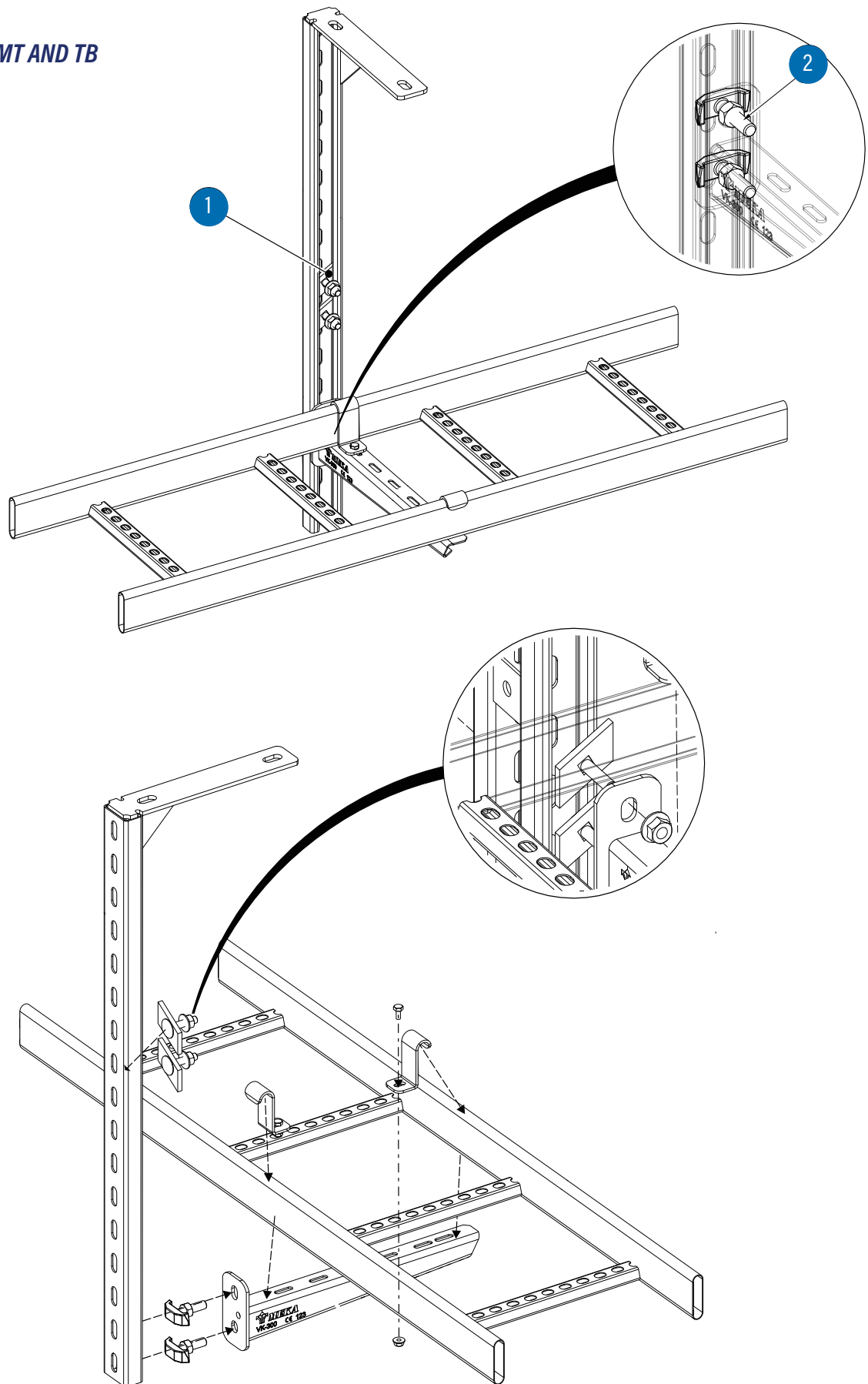
WWW.MEKA.EU

SPECIAL CASES



SUPPORTS

SLIDING NUTS SMT AND TB



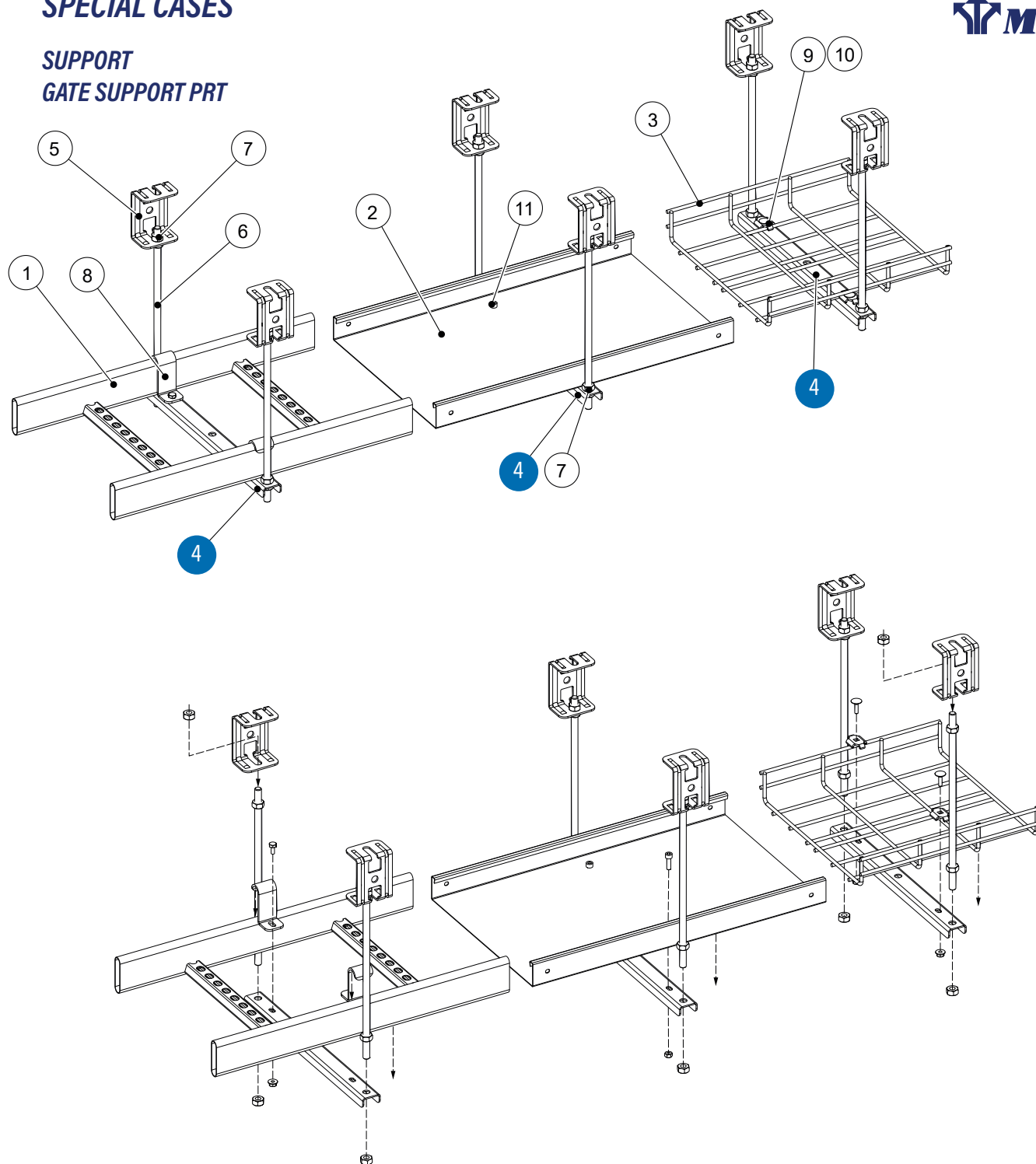
NO	PRODUCT		PCS
1	Sliding nut	SMT	2
2	Sliding nut	TB	2

Supports: Sliding nuts SMT and TB

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SPECIAL CASES

SUPPORT GATE SUPPORT PRT

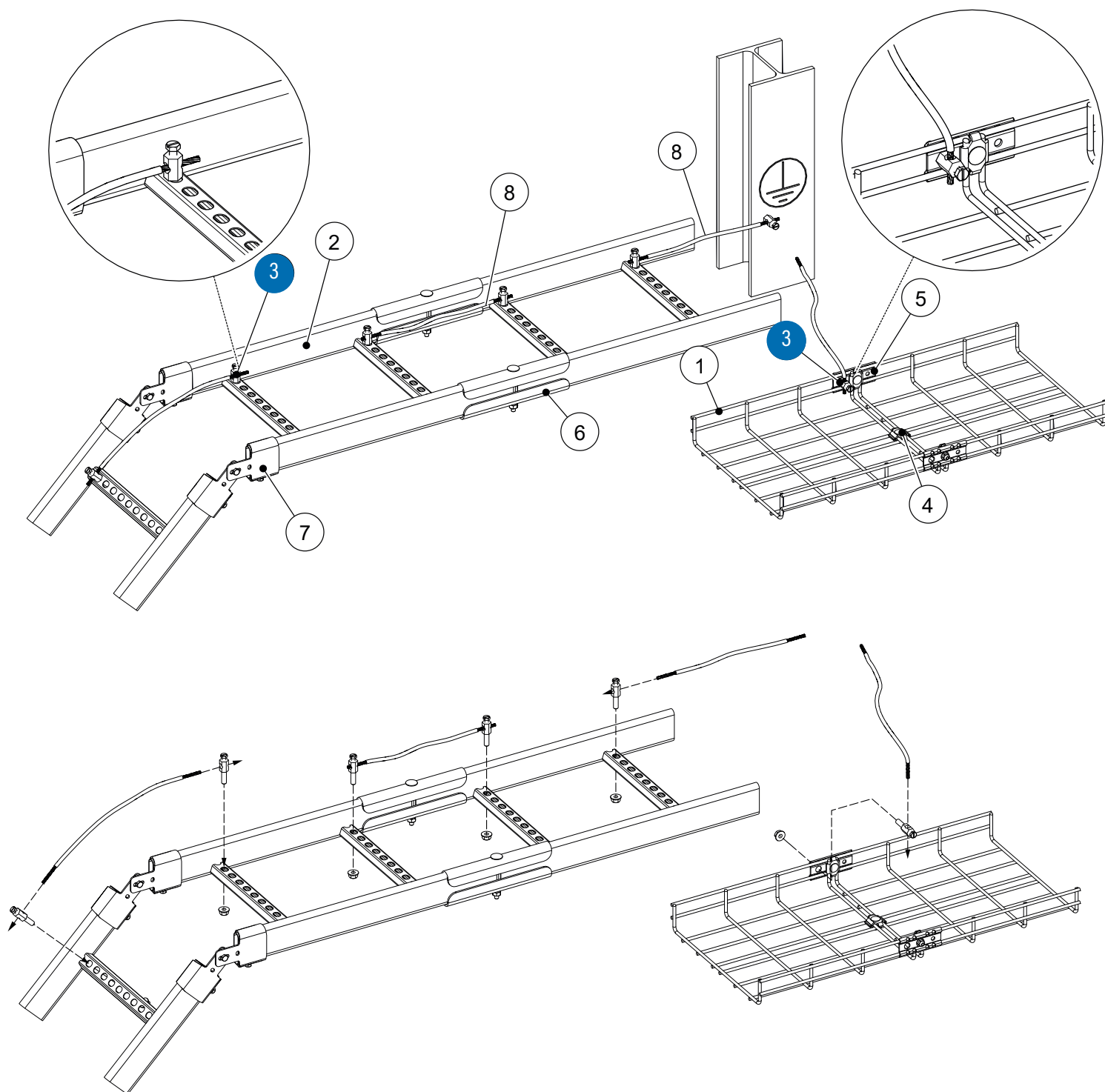


NO	PRODUCT		PCS
1	Cable ladder	KS	1
2	Cable tray	KRA	1
3	Wire mesh tray	WMT	1
4	Gate support	PRT	3
5	Ceiling bracket	RTF-10	6
6	Threaded rod	GT-10	6
7	Nut	MU M10	24
8	Bracket	KK	2
9	Connector plate	WMT-CL1	2
10	Bolt set	RS4	2
11	Screw and nut	M6x20 + M6	2

SPECIAL CASES



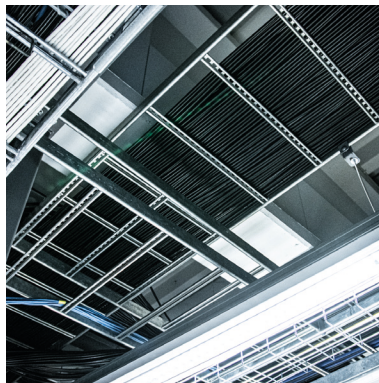
CROSS-SECTIONAL AREA INSTALLATIONS EARTHING TERMINAL PE



NO	PRODUCT		PCS
1	Wire mesh tray	WMT	2
2	Cable ladder	KS	3
3	Earthing terminal	PE	6
4	Connector set	WMT CL	1
5	Connection set	WMT UC	2
6	Joint	SSU	2
7	Flexible joint	NL	2
8	Grounding wire		4

INSTALLATION INSTRUCTIONS

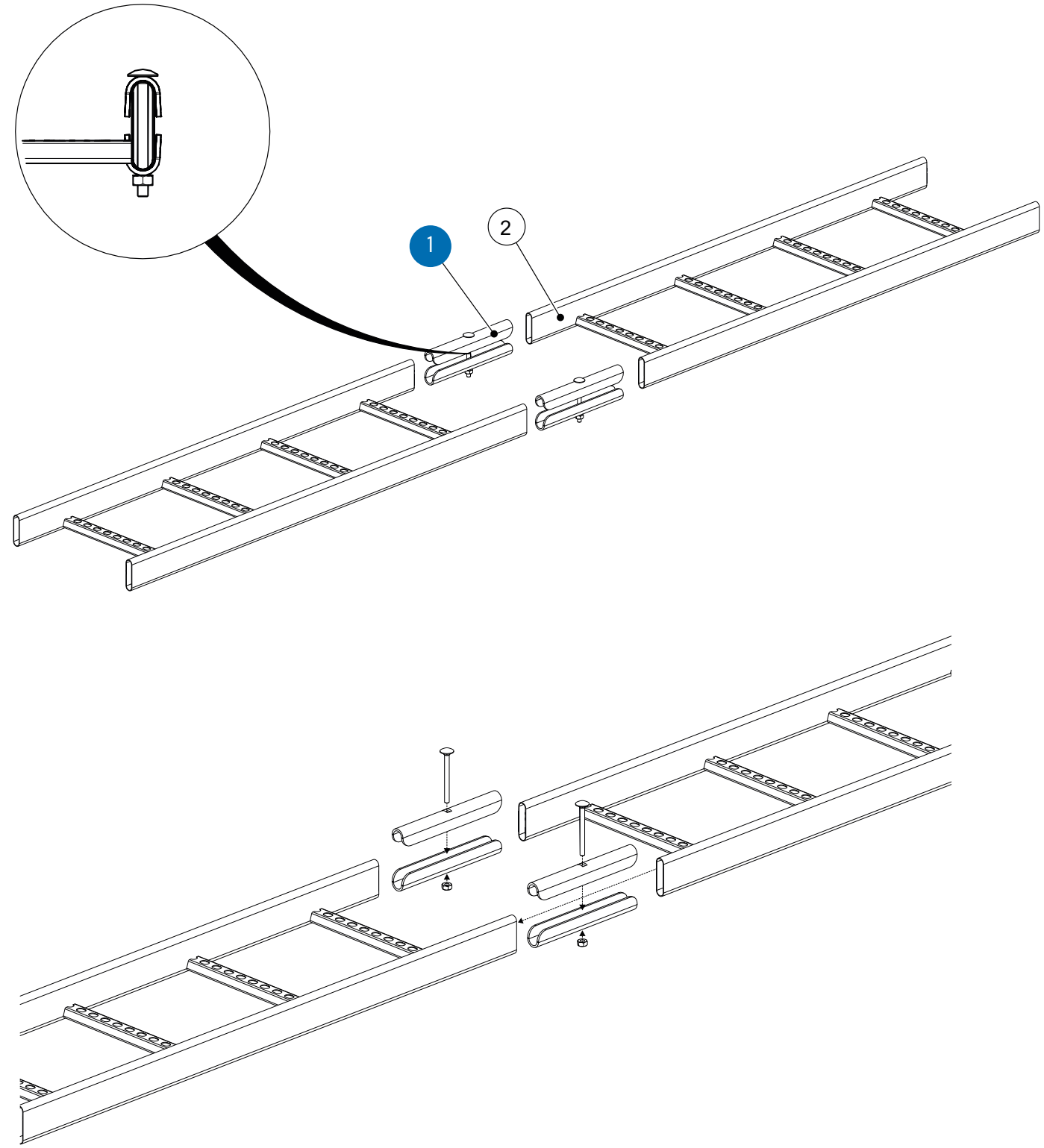
CABLE LADDERS | EXTENSIONS | SUPPORTS | CROSS-SECTIONAL AREA INSTALLATIONS | COVERING



CABLE LADDERS



EXTENSIONS
JOINT SSU OR SSR

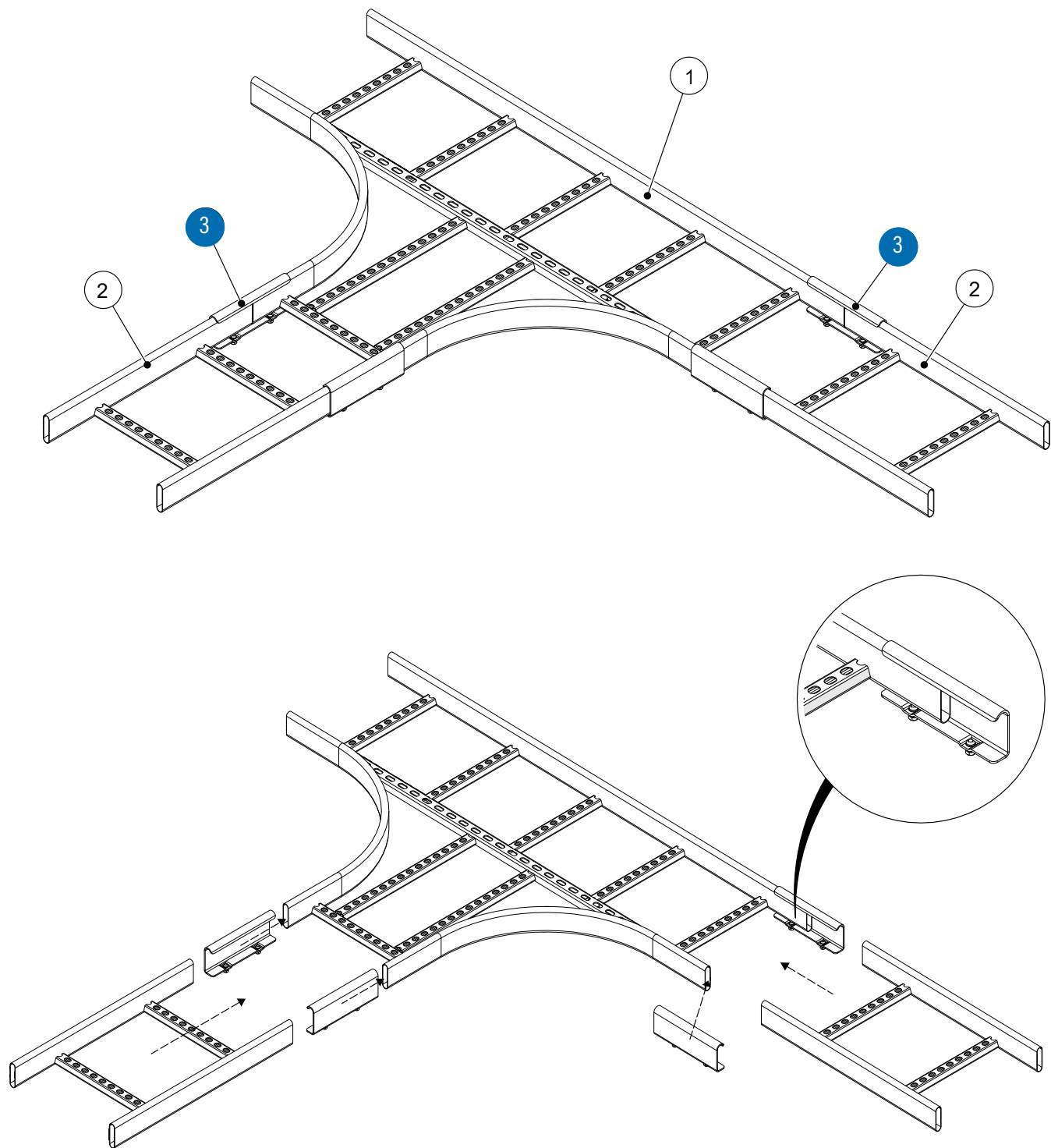


NO	PRODUCT		PCS
1	Joint	SSU or SSR	2
2	Cable Ladder	KS	2

CABLE LADDERS



EXTENSIONS
JOINT SSR OR SSU



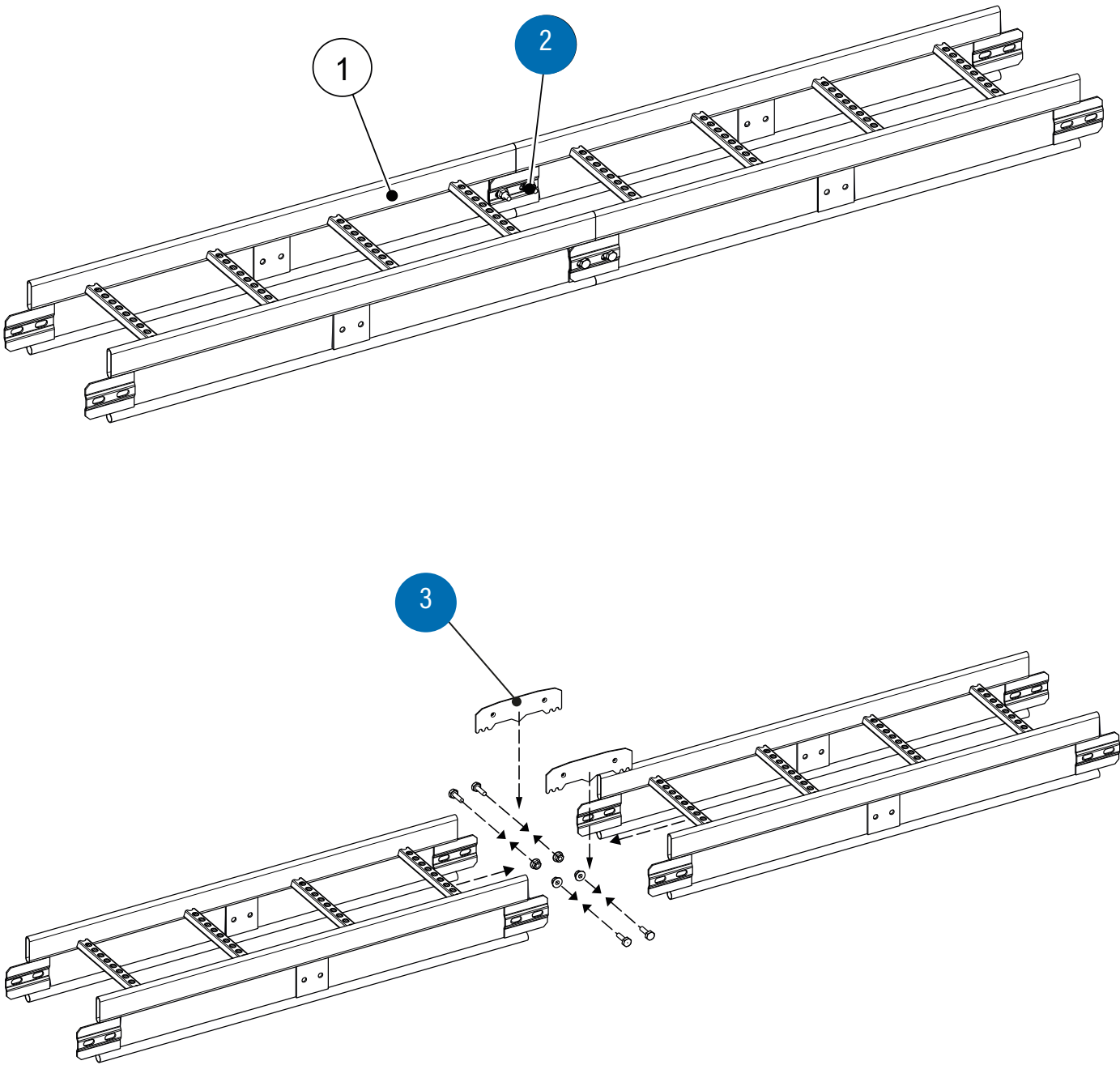
NO	PRODUCT		PCS
1	T-piece	KST	1
2	Cable ladder	KS	2
3	Joint	SSR or SSU	4

CABLE LADDERS



EXTENSIONS

JOINT SSA AND BOLT SET RS KSF

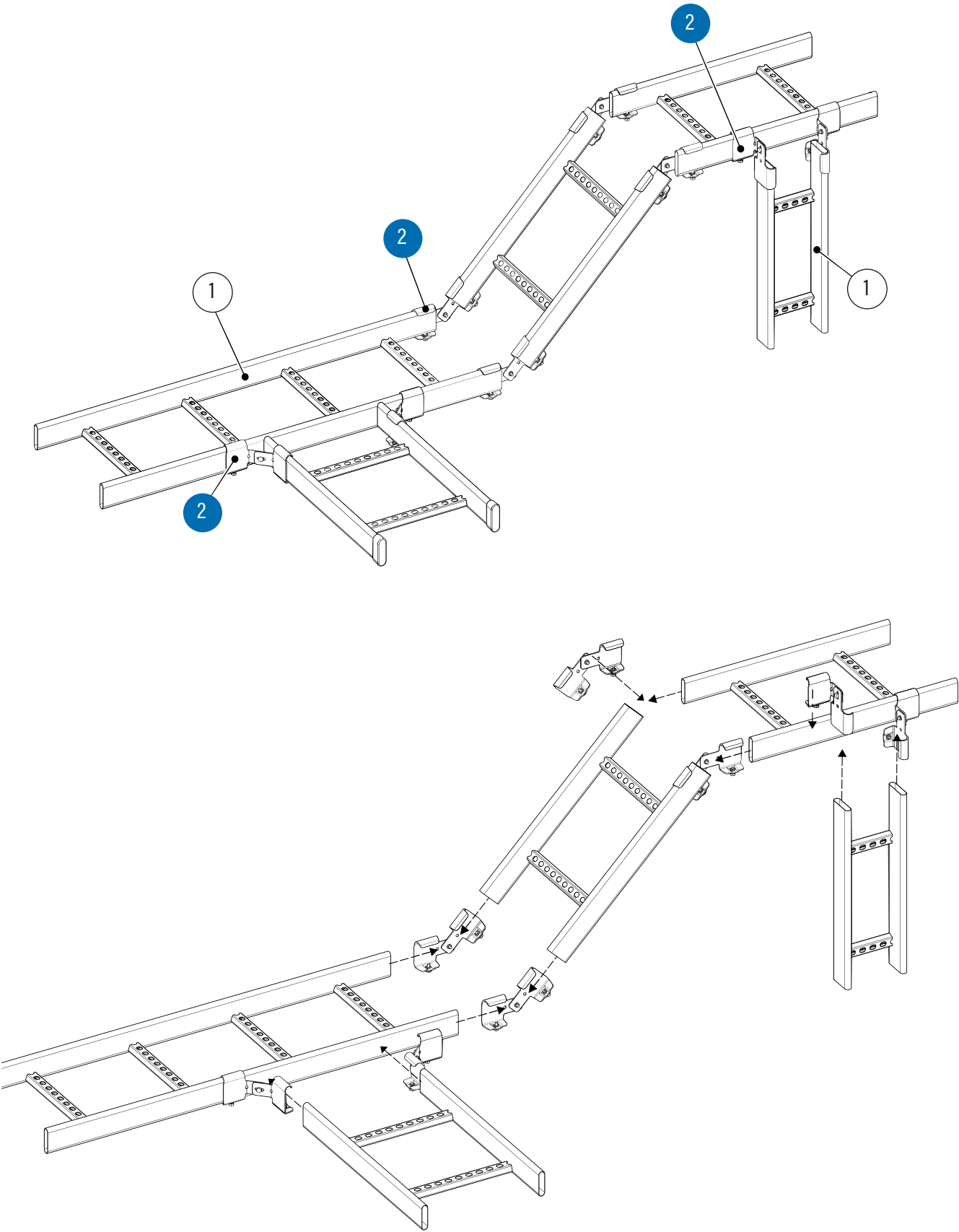


NO	PRODUCT		PCS
1	Cable ladder	KSF80	2
2	Bolt set	RS KSF	4
3	Joint	SSA	2

CABLE LADDERS



EXTENSIONS
FLEXIBLE JOINT NL

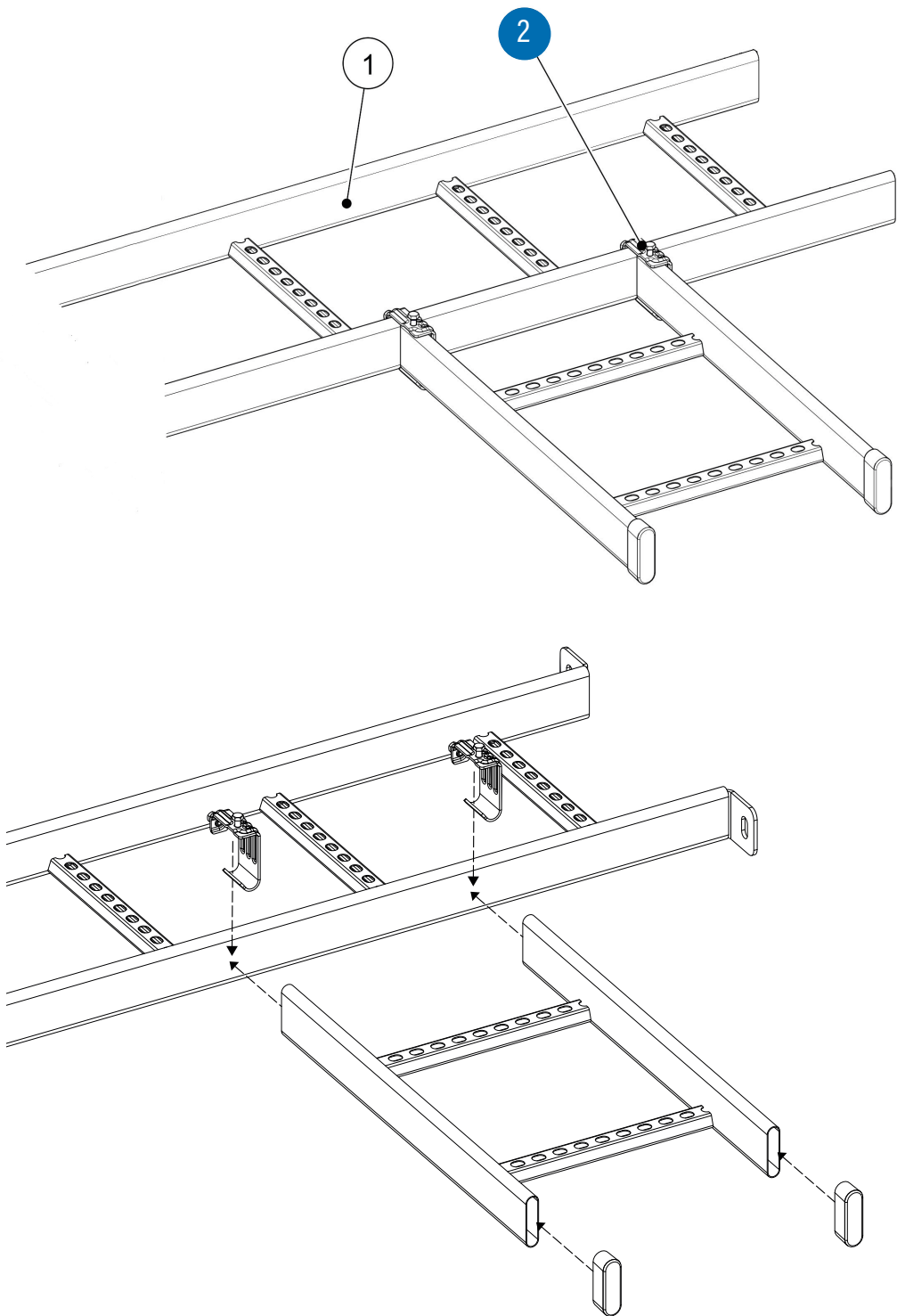


NO	PRODUCT		PCS
1	Cable ladder	KS	5
2	Flexible joint	NL / NL-TK	8

CABLE LADDERS



EXTENSIONS
T-BRANCH BRACKET VF



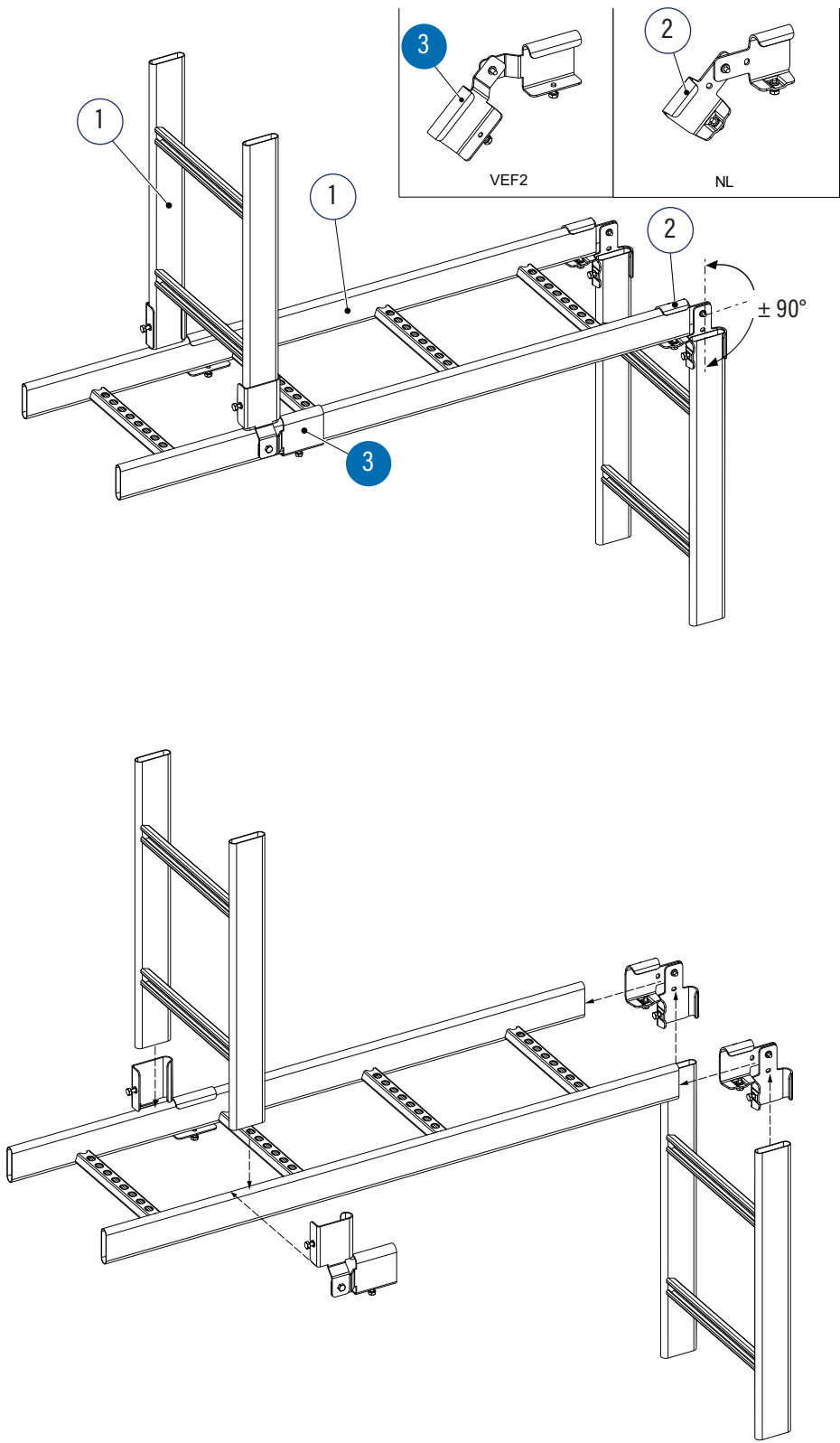
NO	PRODUCT		PCS
1	Cable ladder	KS	2
2	T-branch bracket	VF	2

CABLE LADDERS



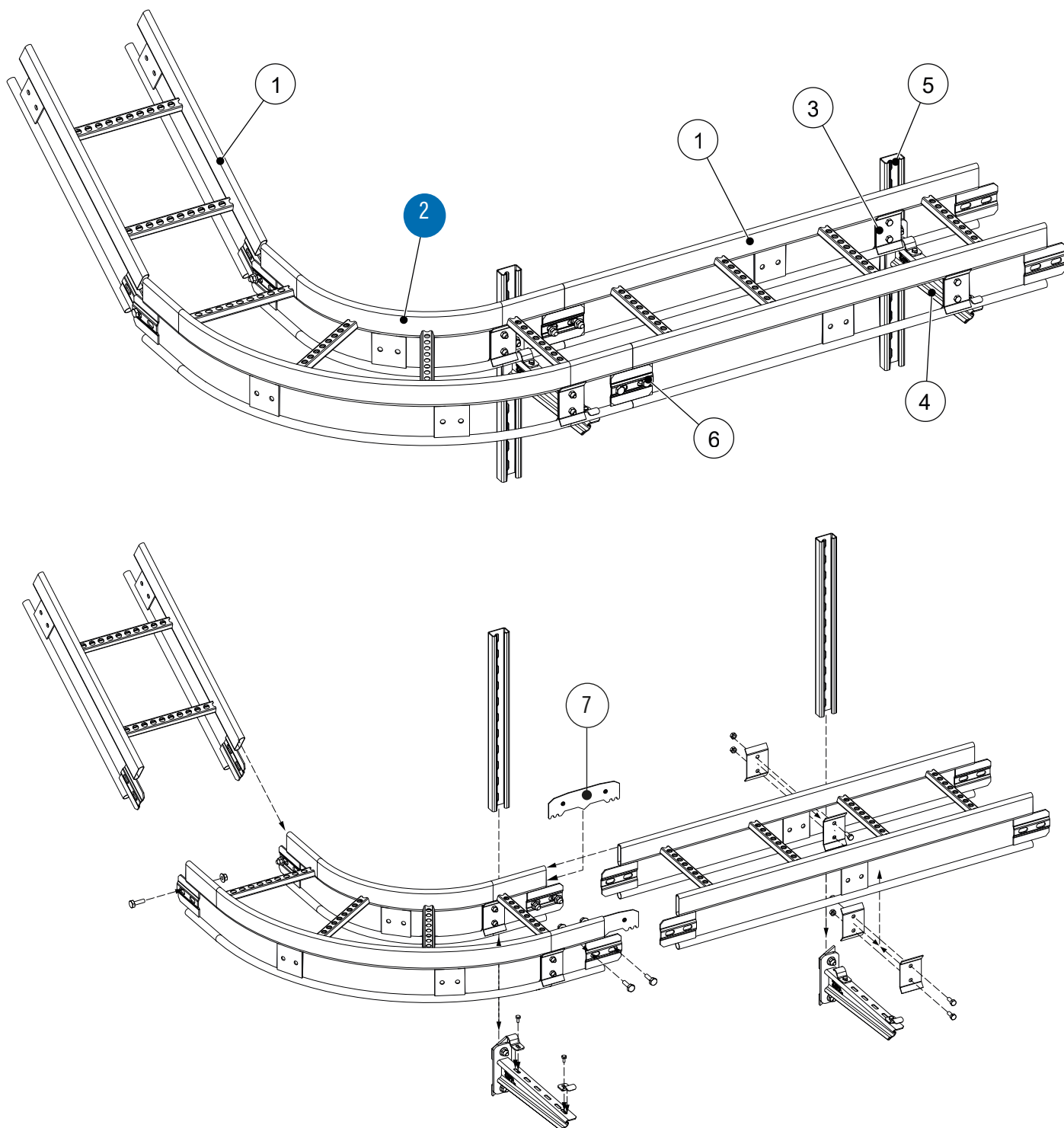
EXTENSIONS

FLEXIBLE VERTICAL BRACKET VEF2



NO	PRODUCT		PCS
1	Cable ladder	KS	3
2	Flexible joint	NL / NL-TK	2
3	Flexible vertical bracket	VEF2	2

EXTENSIONS BEND KSF90

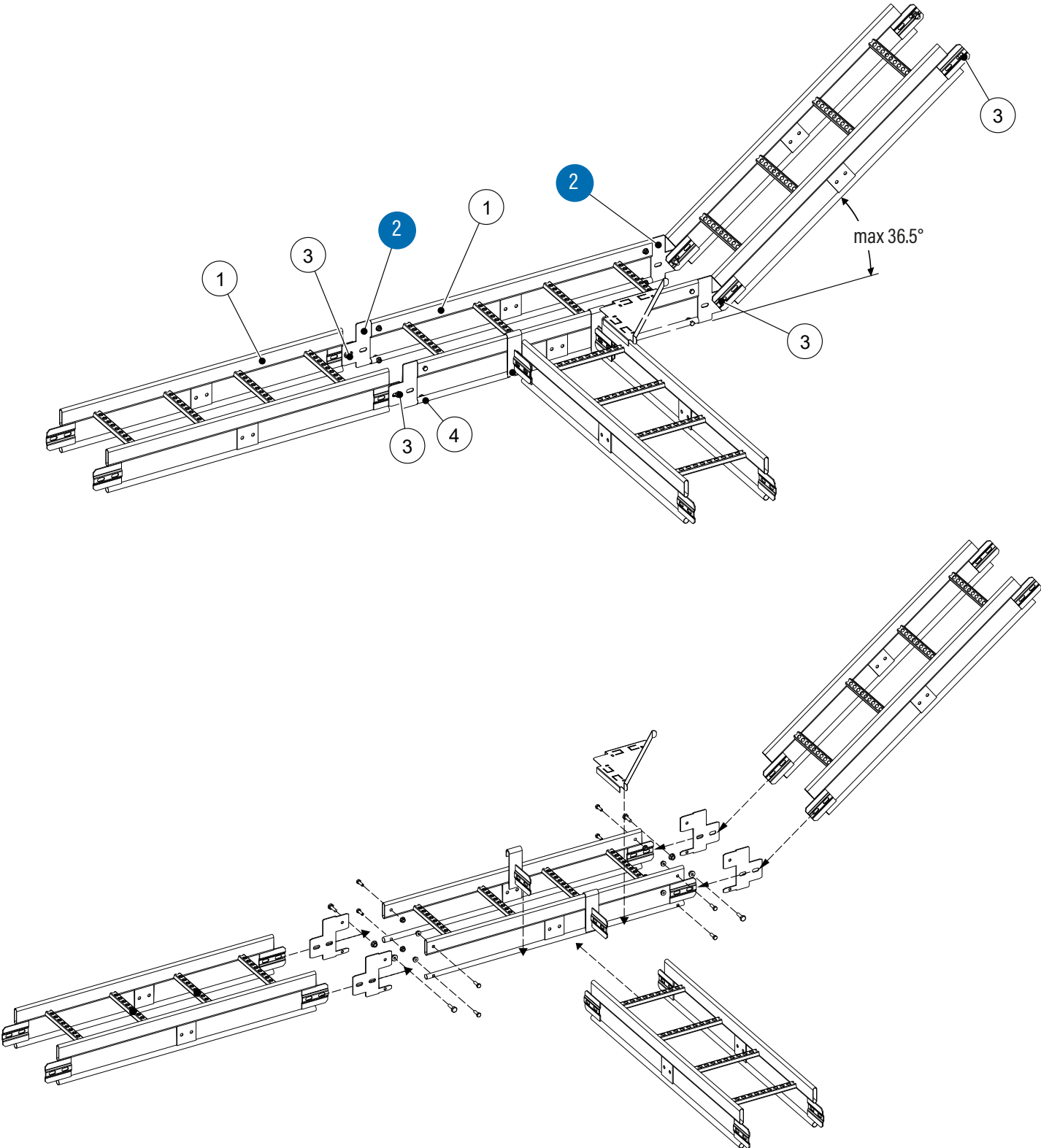


NO	PRODUCT		PCS
1	Cable ladder	KSF80	2
2	Bend	KSF90	1
3	Side profile support	KSF-VT	4
4	Wall bracket/wall support + bracket + sliding nut	VK/VKF + KKF + SMT	2
5	Mounting rail	AS	2
6	Bolt set	RS KSF	6
7	Joint	SSA	2

CABLE LADDERS



EXTENSIONS
FLEXIBLE JOINT KSF-NL

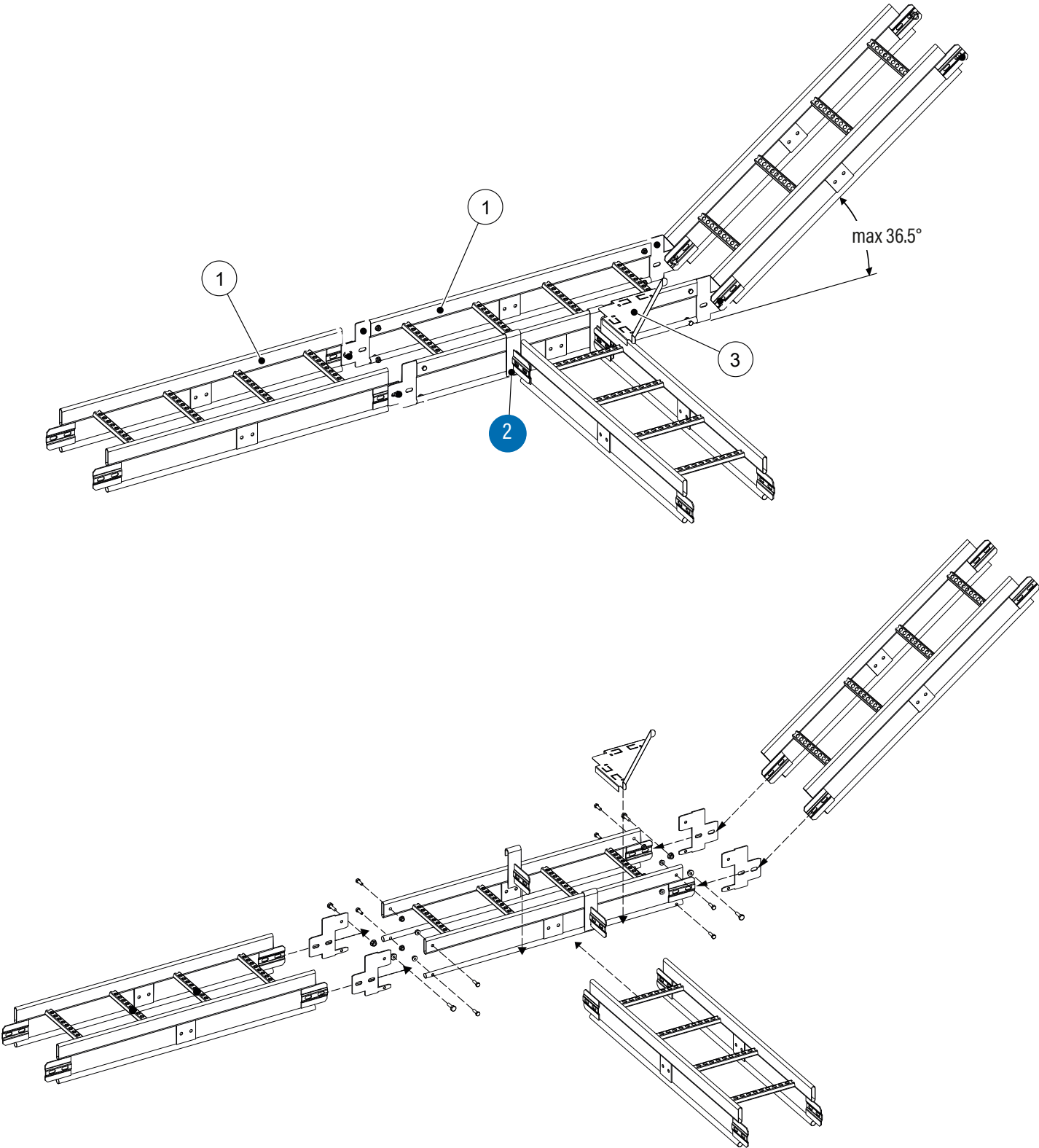


NO	PRODUCT		PCS
1	Cable ladder	KSF80	4
2	Flexible joint	KSF-NL	4
3	Bolt set	RS KSF	6
4	Screw and nut	M8x25 (30) + M8	8

CABLE LADDERS



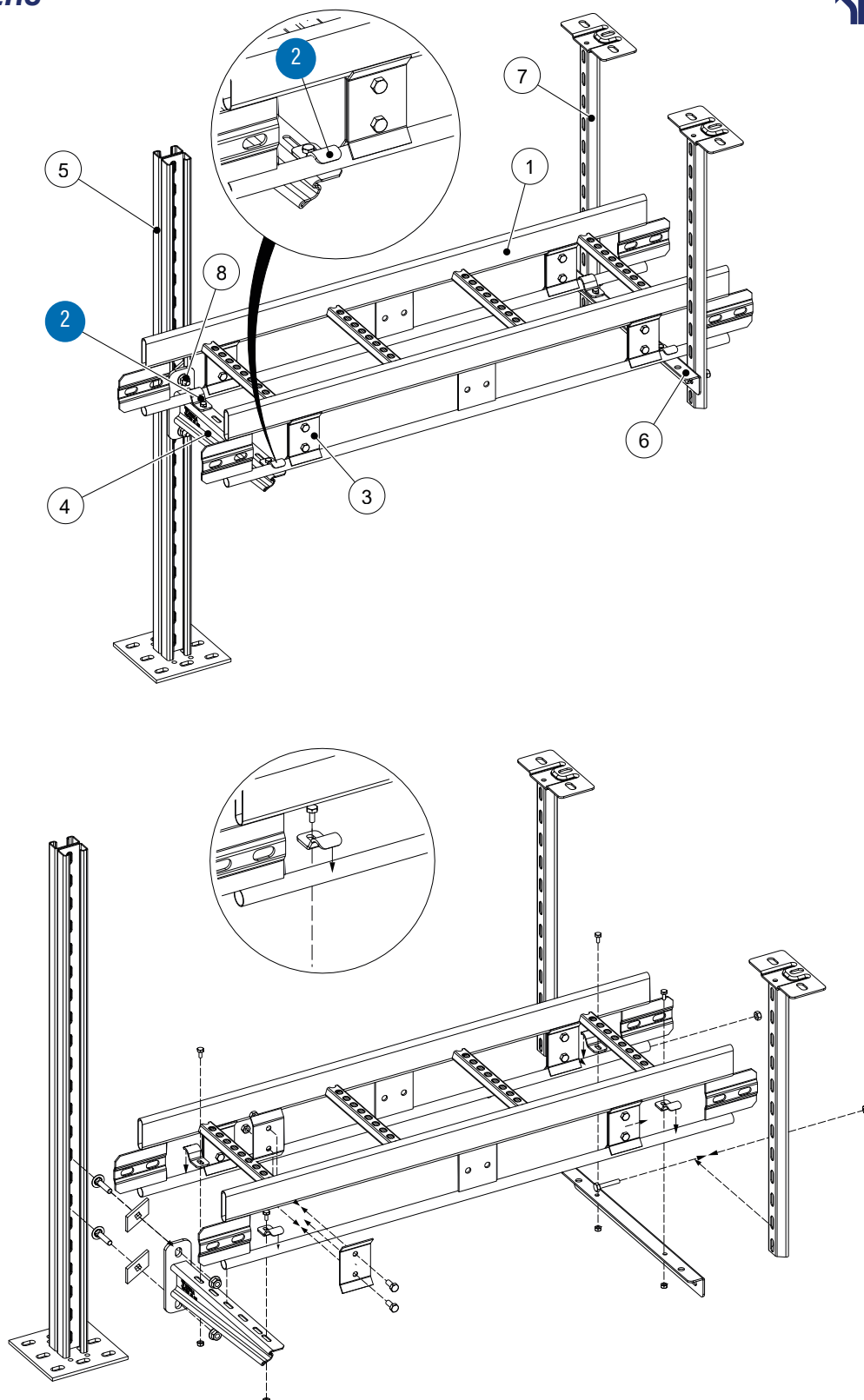
EXTENSIONS
T-BRANCH BRACKET VFF



NO	PRODUCT		PCS
1	Cable ladder	KSF80	4
2	T-branch bracket	VFF	2
3	Branching sheet	AG	1

CABLE LADDERS

SUPPORTS BRACKET KKF

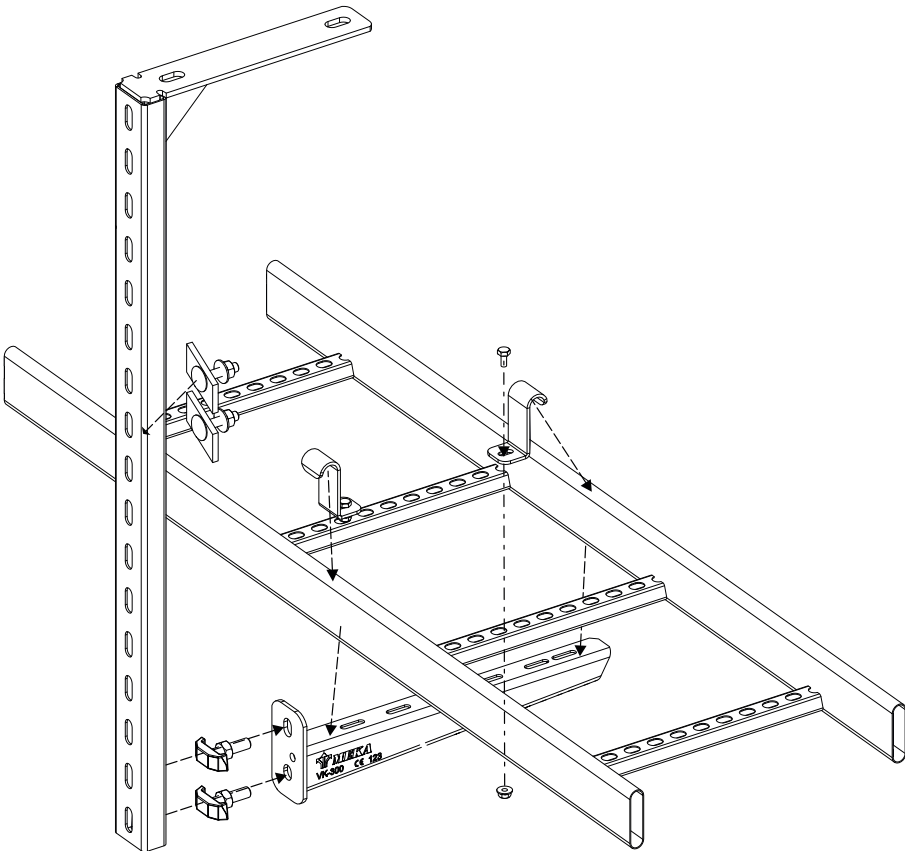
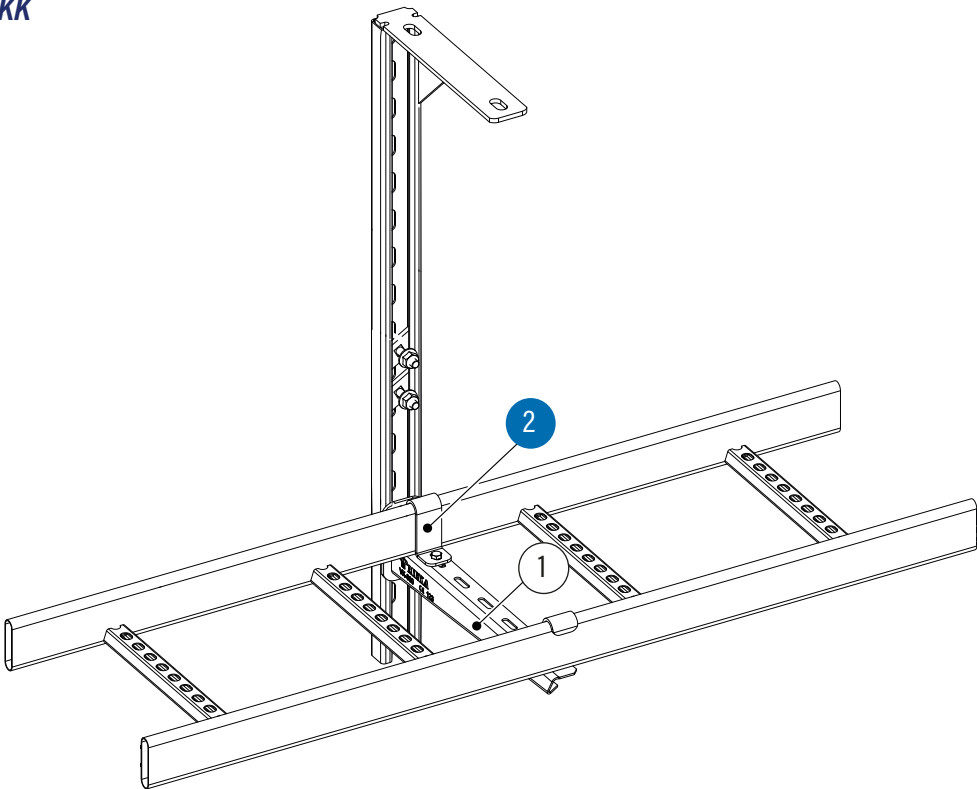


NO	PRODUCT		PCS
1	Cable ladder	KSF80	1
2	Bracket	KKF	4
3	Side profile support	KSF-VT	4
4	Wall support	VKF	1
5	Ceiling support	TP2	1
6	Gate support	TPK	1
7	Ceiling support	TP1	2
8	Sliding nut	SMT	2

CABLE LADDERS

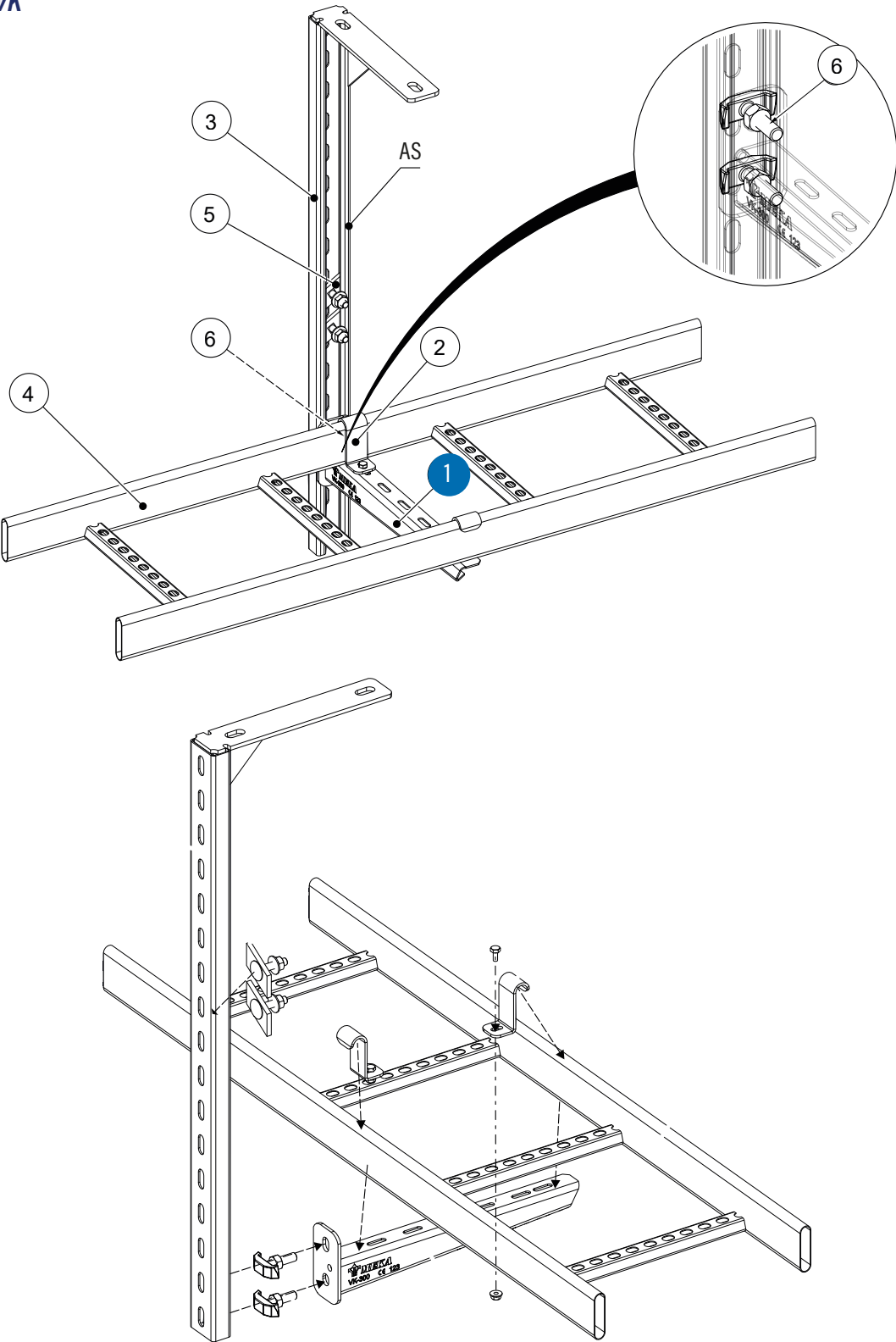


SUPPORTS
BRACKET KK

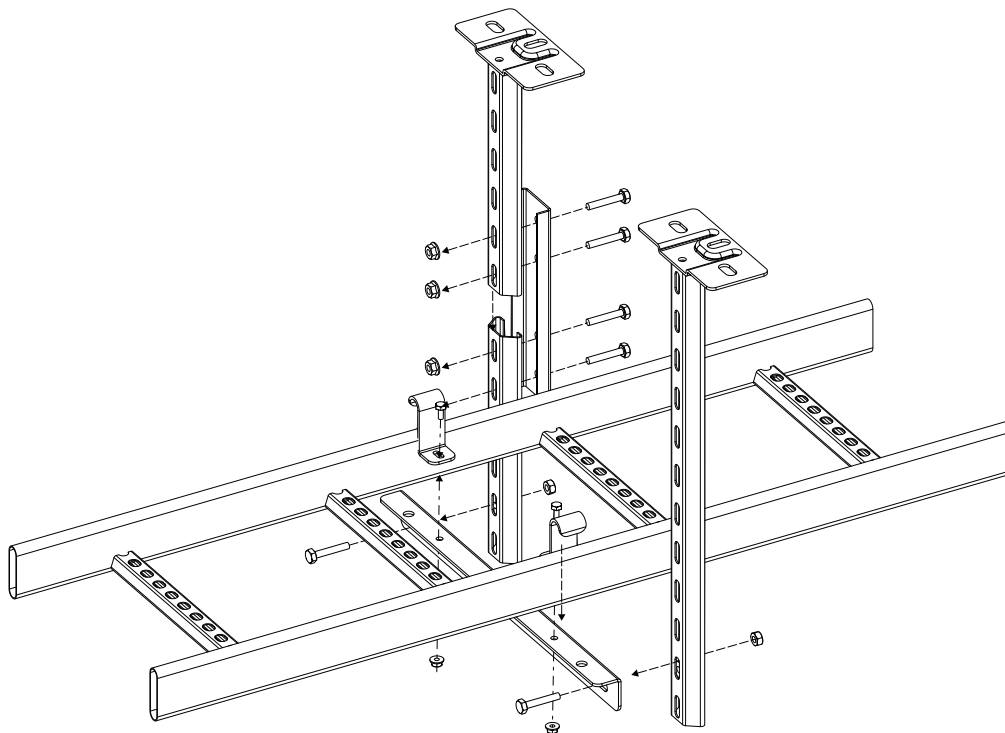
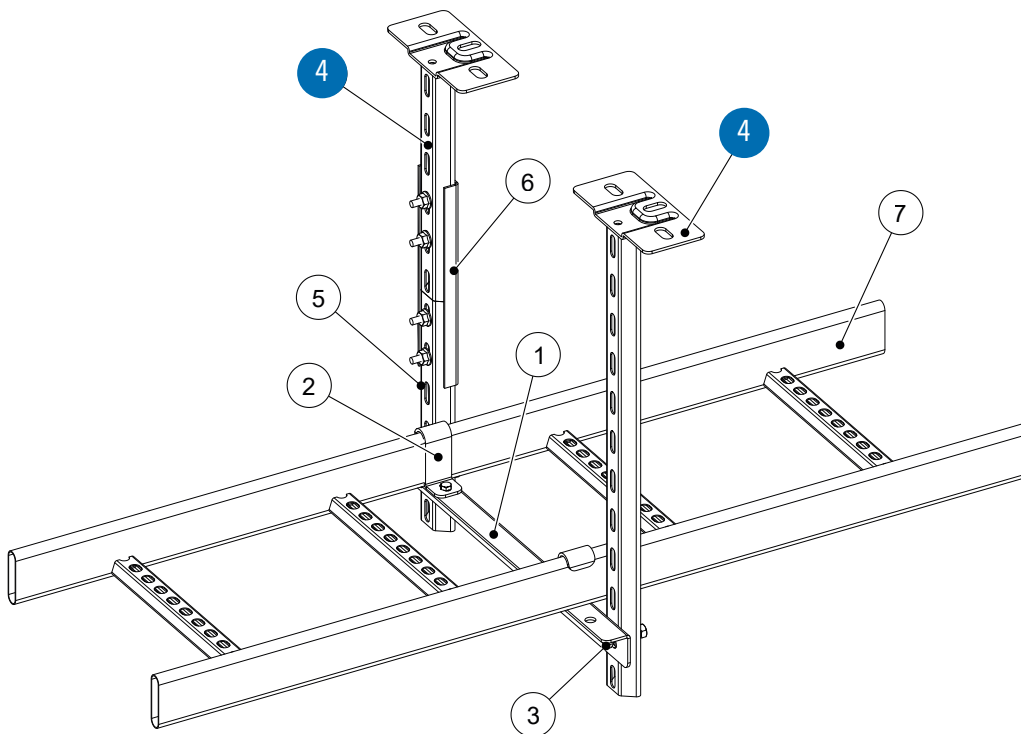


NO	PRODUCT		PCS
1	Wall support	VK	1
2	Bracket	KK	2

SUPPORTS
WALL SUPPORT VK



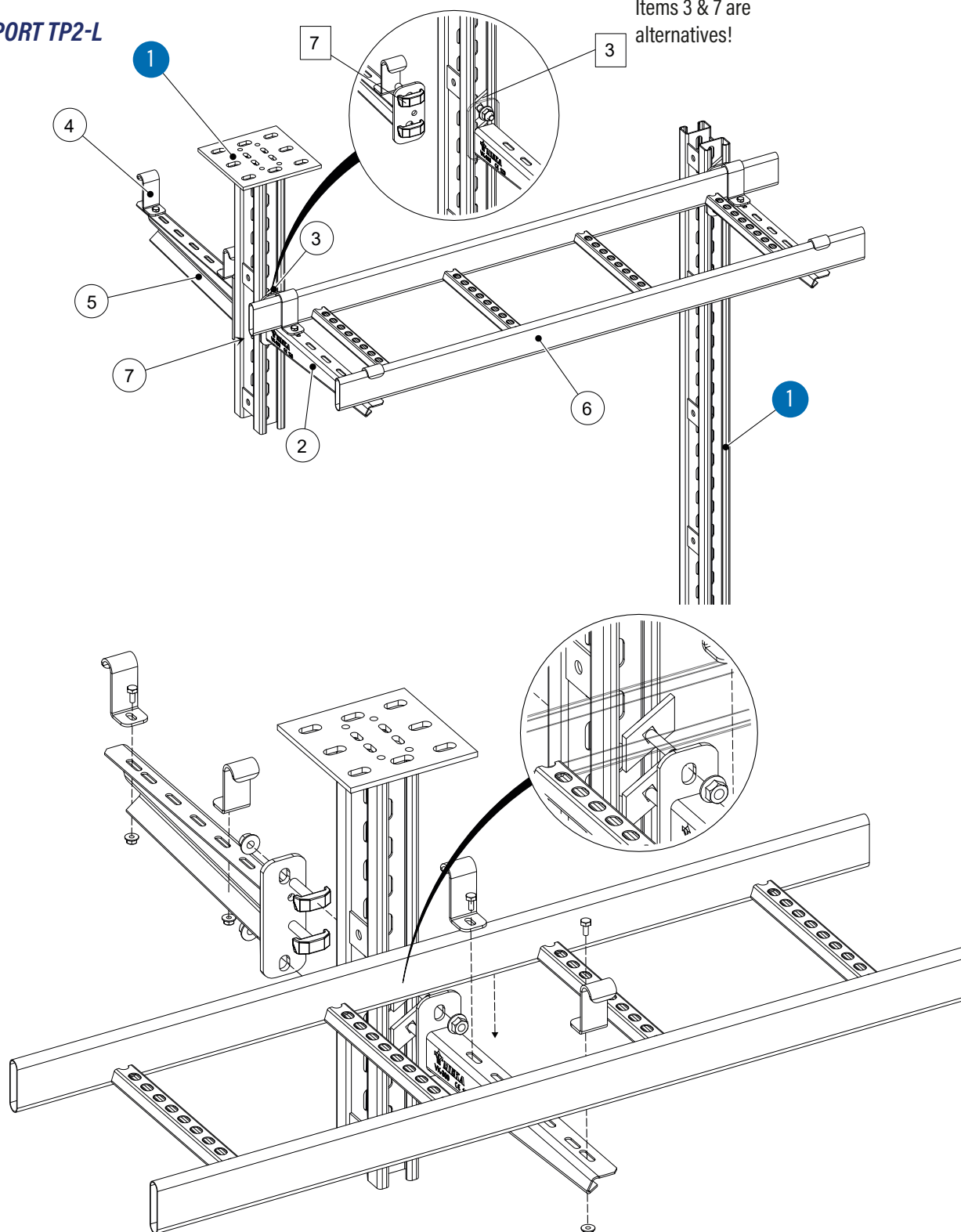
NO	PRODUCT		PCS
1	Wall support	VK	1
2	Bracket	KK	2
3	Ceiling bracket	HK2	1
4	Cable ladder	KS	1
5	Sliding nut	SMT	1
6	Sliding nut	TB	2



NO	PRODUCT		PCS
1	Gate support	TPK	1
2	Bracket	KK	2
3	Bolt set	RS2	3
4	Ceiling support	TP1	2
5	Mounting rail	FP	1
6	Joint	JK	1
7	Cable ladder	KS	1

SUPPORTS

CEILING SUPPORT TP2-L



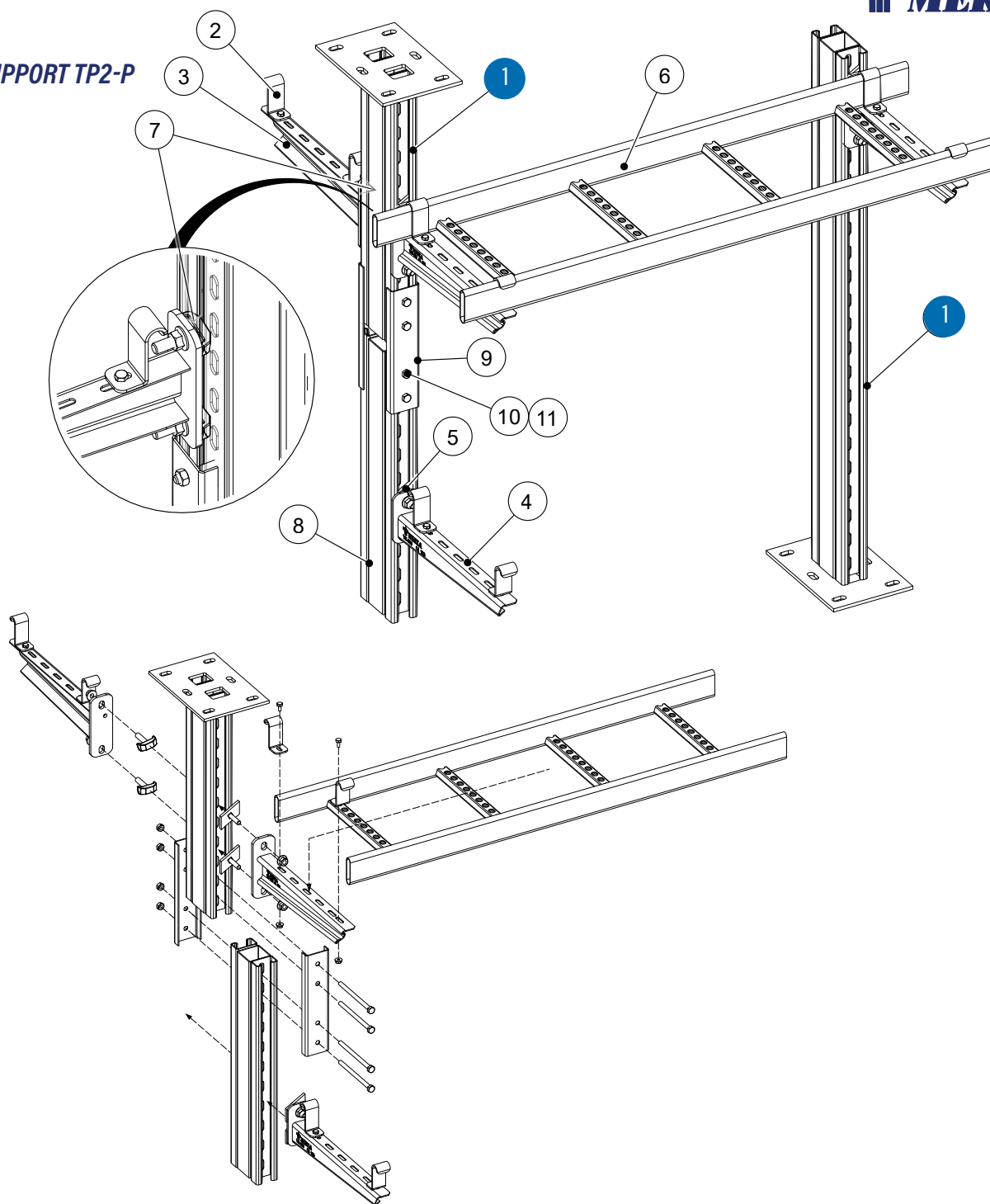
NO	PRODUCT		PCS
1	Ceiling support	TP2 / TP2-L	2
2	Wall support	VK	2
3	Sliding nut	SMT	2
4	Bracket	KK	2
5	Wall support	VKF	1
6	Cable ladder	KS	1
7	Sliding nut	TB	2

CABLE LADDERS



SUPPORTS

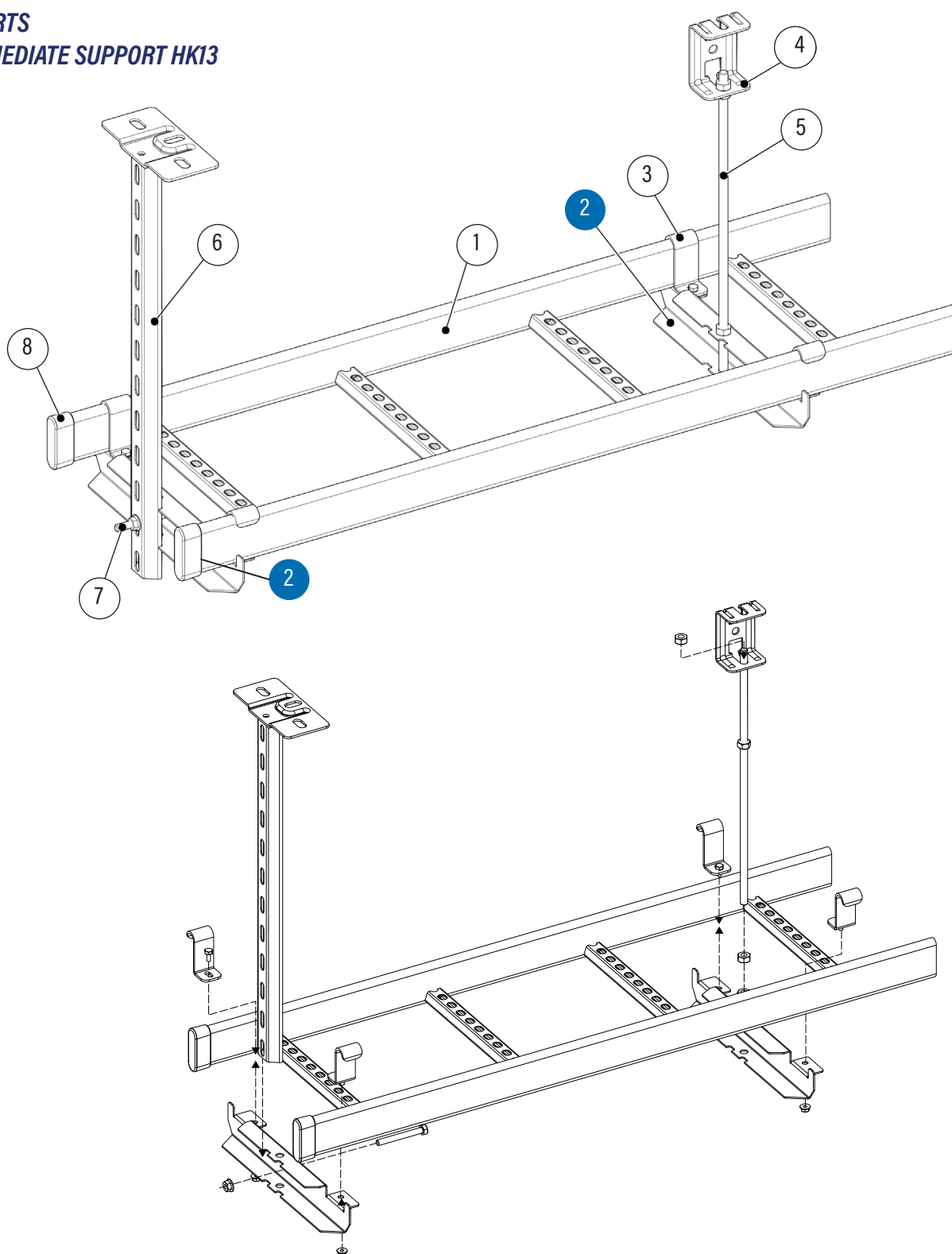
CEILING SUPPORT TP2-P



NO	PRODUCT		PCS
1	Ceiling support	TP2-P	2
2	Bracket	KK	8
3	Wall support	VKF	3
4	Wall support	VK	1
5	Sliding nut	SMT	6
6	Cable ladder	KS	1
7	Sliding nut	TB	2
8	Mounting rail	ASR-P	1
9	Joint	JK	2
10	Hex screw	M8x120	4
11	Nut	M8	4

SUPPORTS

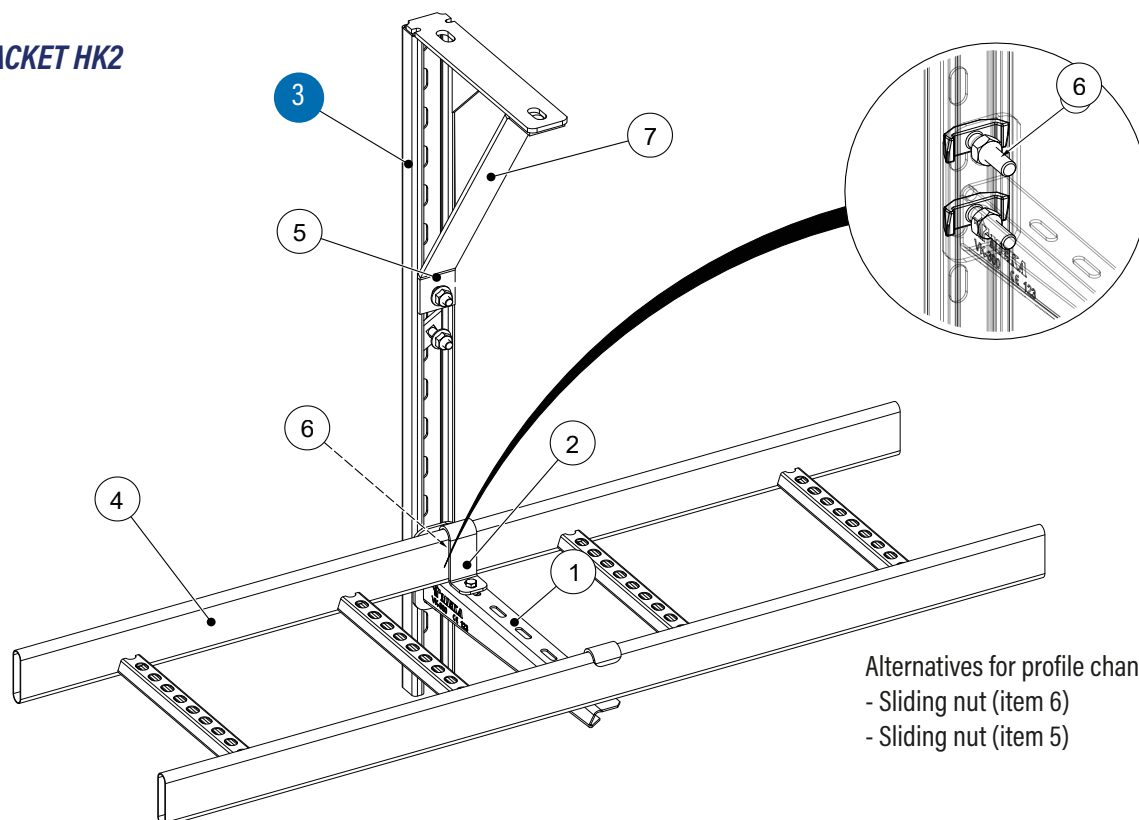
INTERMEDIATE SUPPORT HK13



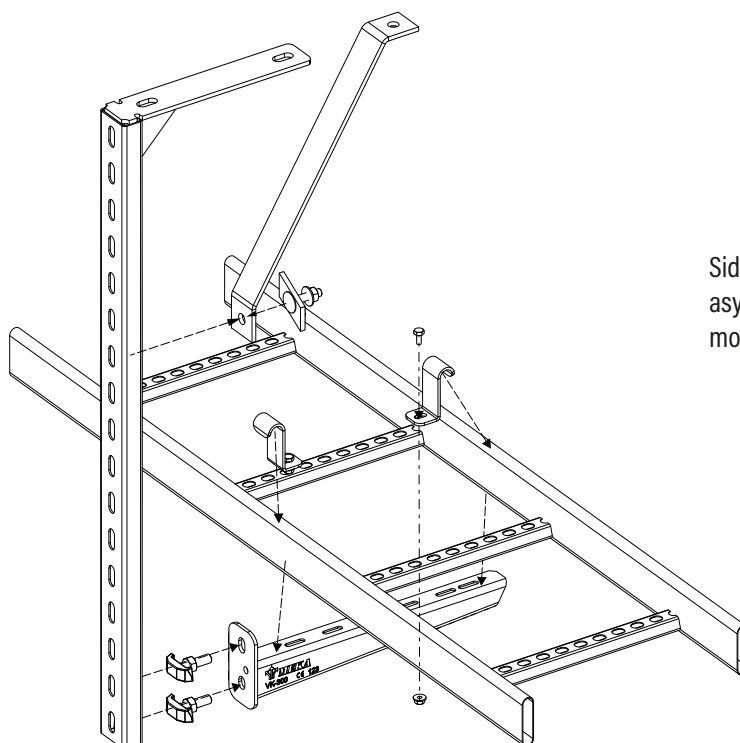
NO	PRODUCT		PCS
1	Cable ladder	KS	1
2	Intermediate support	HK13	2
3	Bracket	KK	4
4	Ceiling bracket	RTF	1
5	Threaded rod	GT10 / GT-16	1
6	Ceiling support	TP1	1
7	Bolt set	RS3	1
8	End plug	ÄP	2

SUPPORTS

CEILING BRACKET HK2



Alternatives for profile channel
- Sliding nut (item 6)
- Sliding nut (item 5)



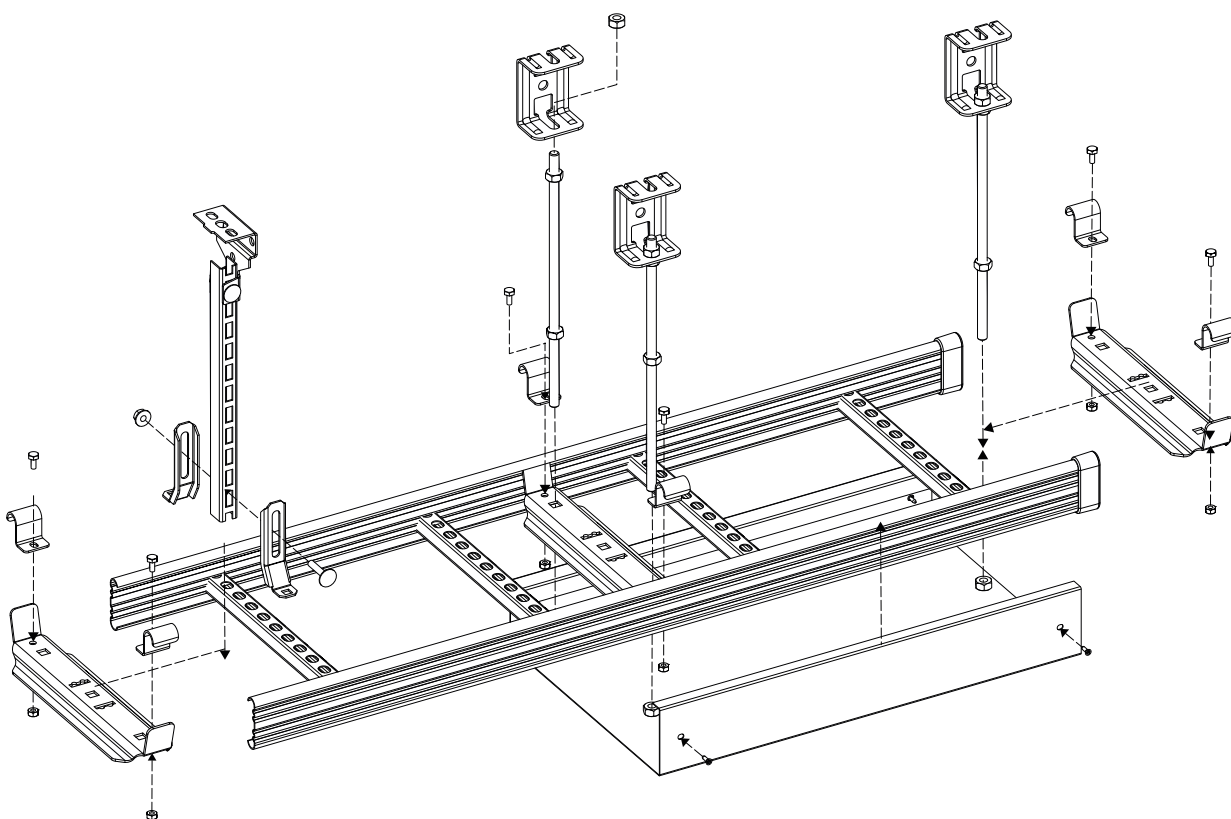
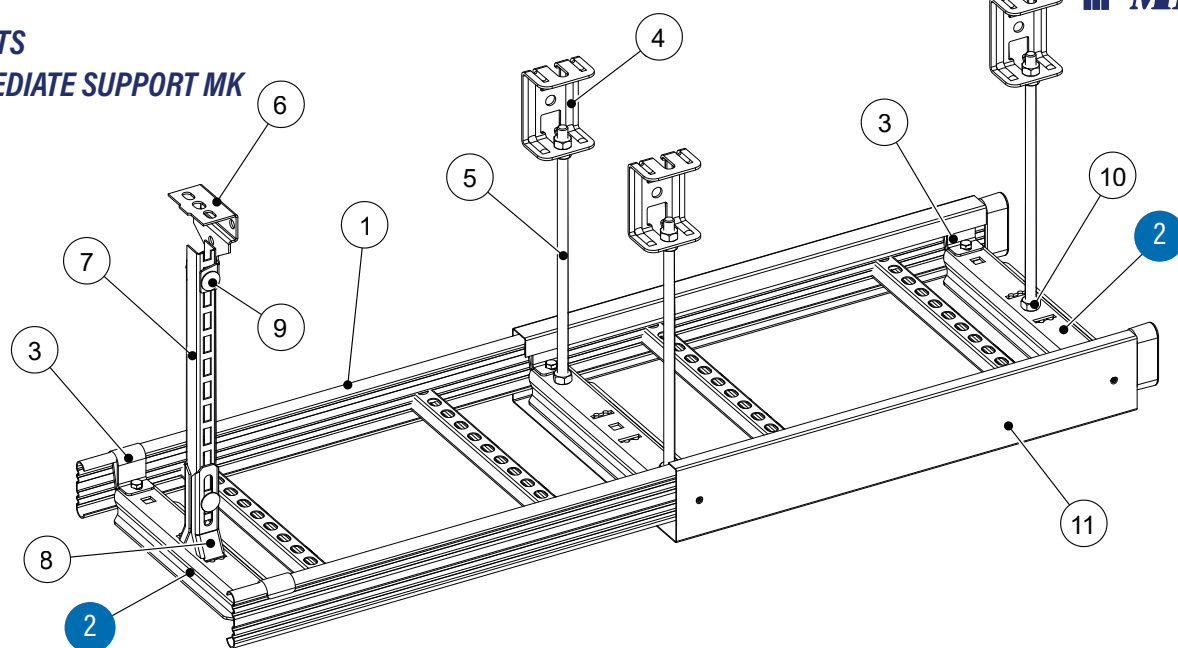
Side support ST is used with
asymmetric load, and/or when wall
mounting is not possible

NO	PRODUCT		PCS
1	Wall bracket	VK	1
2	Bracket	KK	2
3	Ceiling support	HK2	1
4	Cable ladder	KS	1
5	Sliding nut	SMT	1
6	Sliding nut	TB	2
7	Side support	ST	1

CABLE LADDERS

SUPPORTS

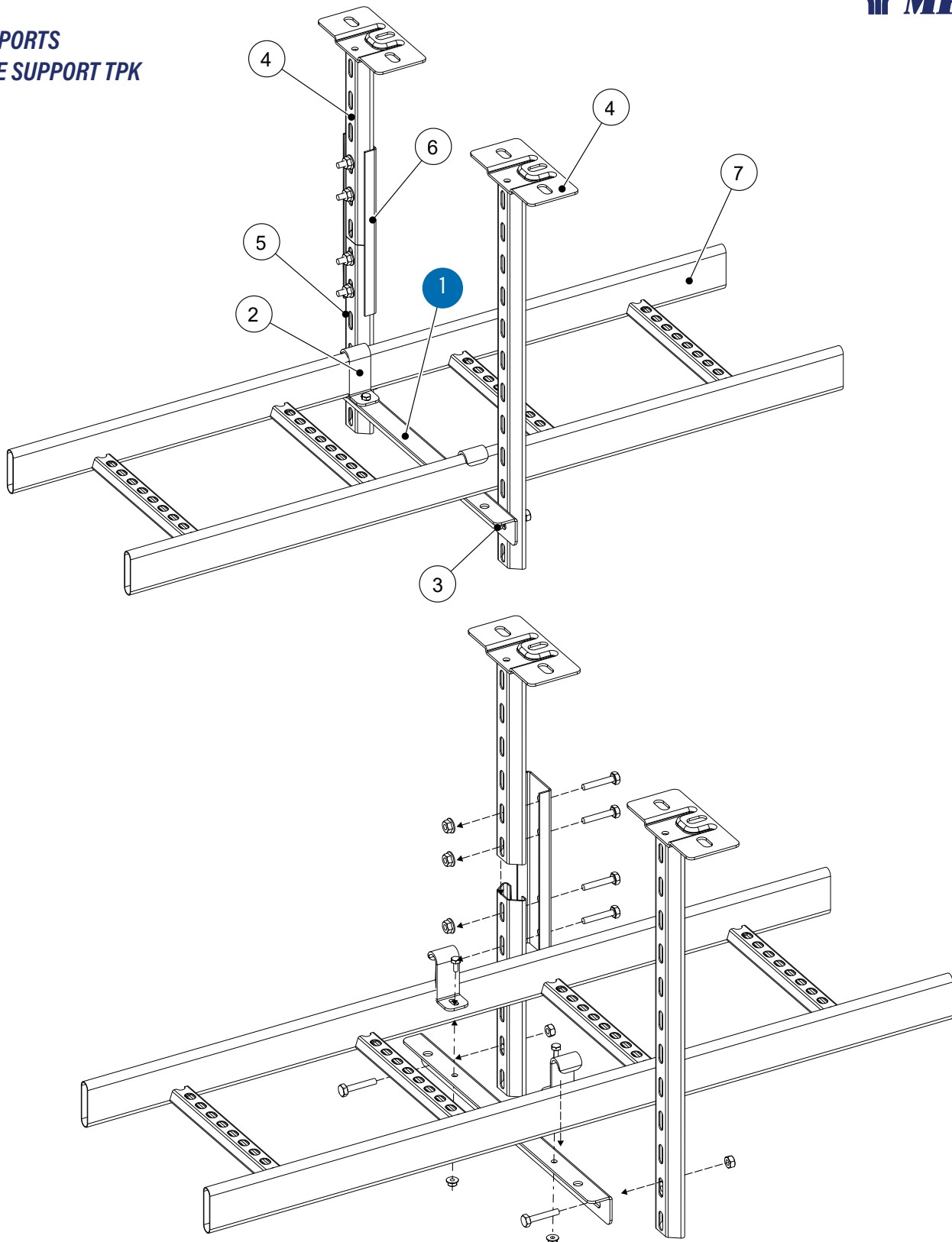
INTERMEDIATE SUPPORT MK



NO	PRODUCT		PCS
1	Cable ladder	KS	1
2	Intermediate support	MK	3
3	Bracket	KK-MK	6
4	Ceiling bracket	RTF	3
5	Threaded rod	GT-10 / GT-16	3
6	Ceiling bracket	PF	1
7	Mounting rail	PS	1
8	Bracket for PS rail	PSF	2
9	Bolt set	RS-PSF	2
10	Nut	MU 10 / MU 16	8
11	Bottom cover	PPU	1

SUPPORTS

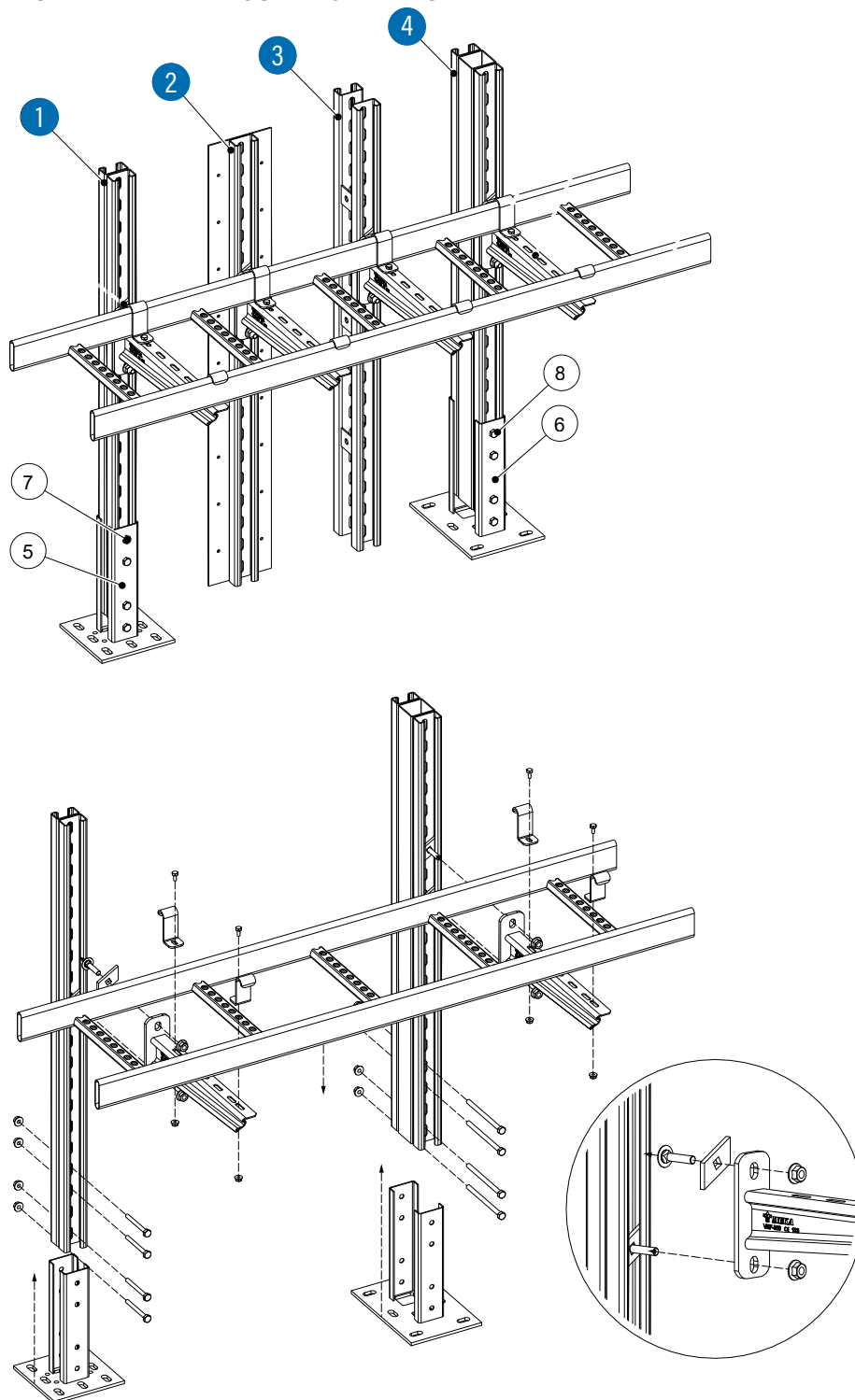
GATE SUPPORT TPK



NO	PRODUCT		PCS
1	Gate support	TPK	1
2	Bracket	KK	2
3	Bolt set	RS2	2
4	Ceiling support	TP1	2
5	Mounting rail	FP	1
6	Joint	JK	1
7	Cable ladder	KS	1

SUPPORTS

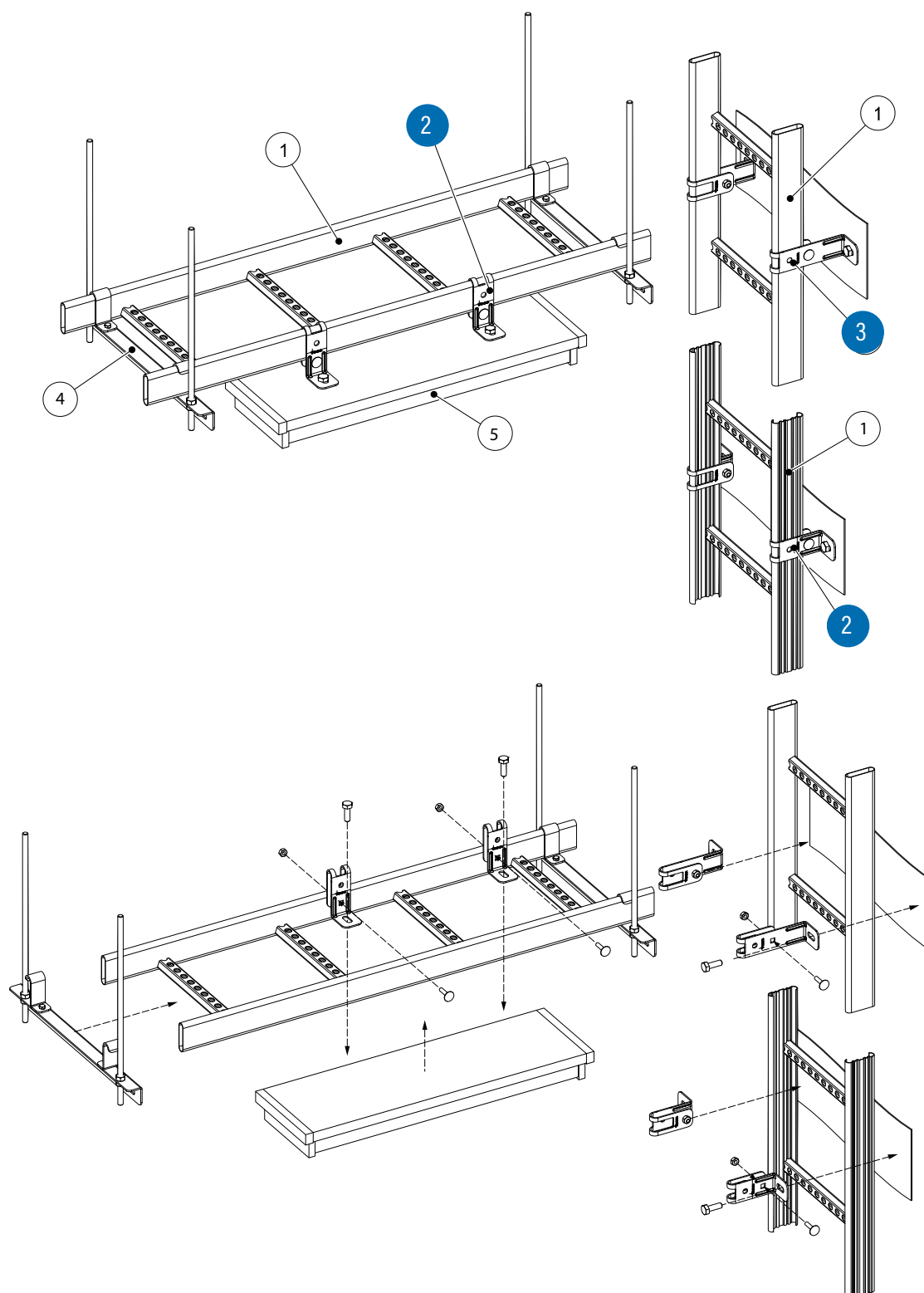
MOUNTING RAILS ASR, ASR-L AND ASR-P AND WALL MOUNTING RAIL AS WALL



NO	PRODUCT		PCS
1	Mounting rail	ASR	1
2	Wall mounting rail	AS WALL	1
3	Mounting rail	ASR-L	1
4	Mounting rail	ASR-P	1
5	Ceiling bracket	ASR-TF	1
6	Ceiling bracket	ASR-P-TF	1
7	Bolt set	RS3	4
8	Screw set	M8 x 120 + M8	4

SUPPORTS

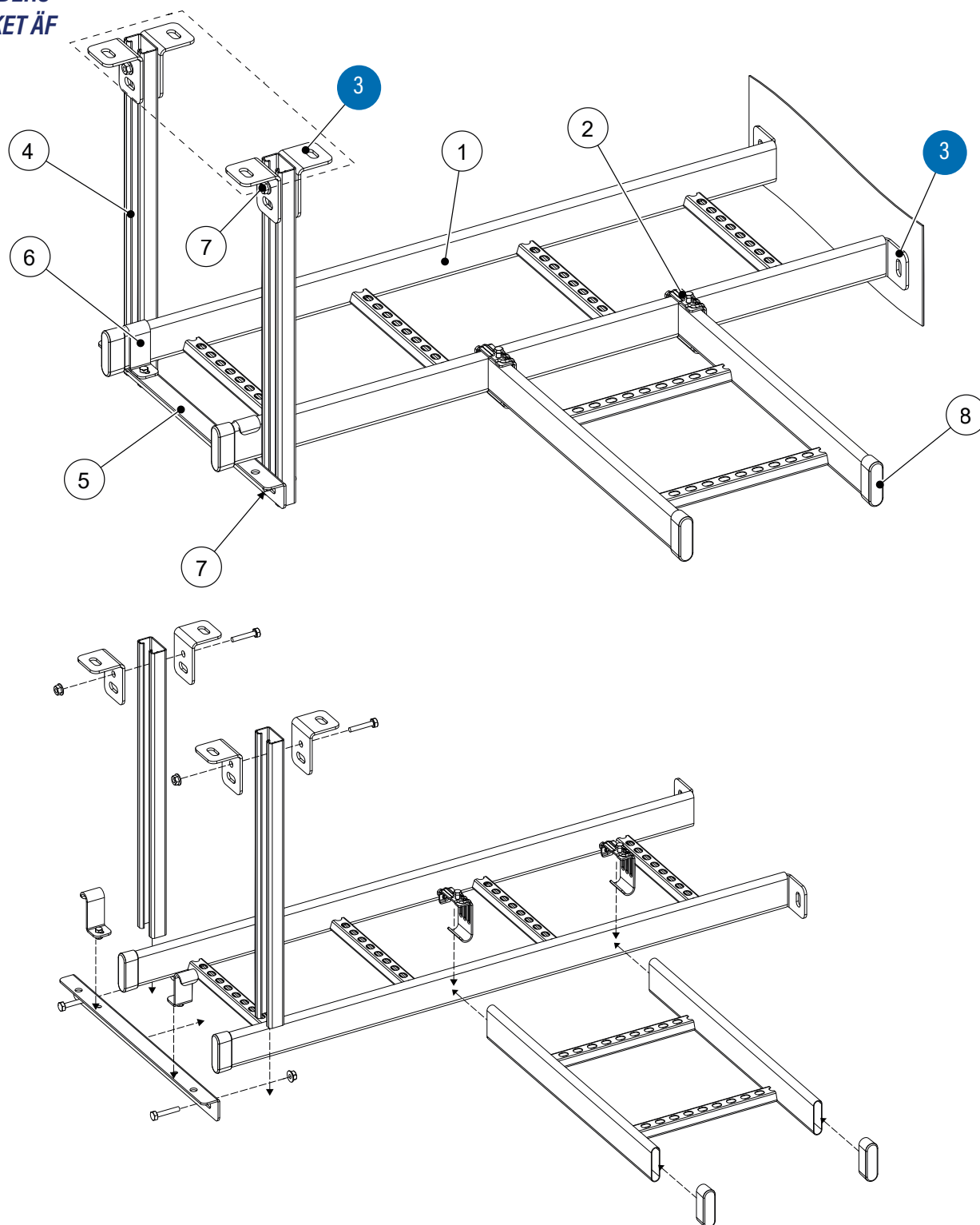
WALL BRACKETS VK2 AND VK3



NO	PRODUCT		PCS
1	Cable ladder	KS	3
2	Wall bracket	VK2	4
3	Wall bracket	VK3	2
4	Gate support	TPK + KK + MU M10	2
5	Luminaire		1

SUPPORTS

CABLE LADDERS END BRACKET ÄF

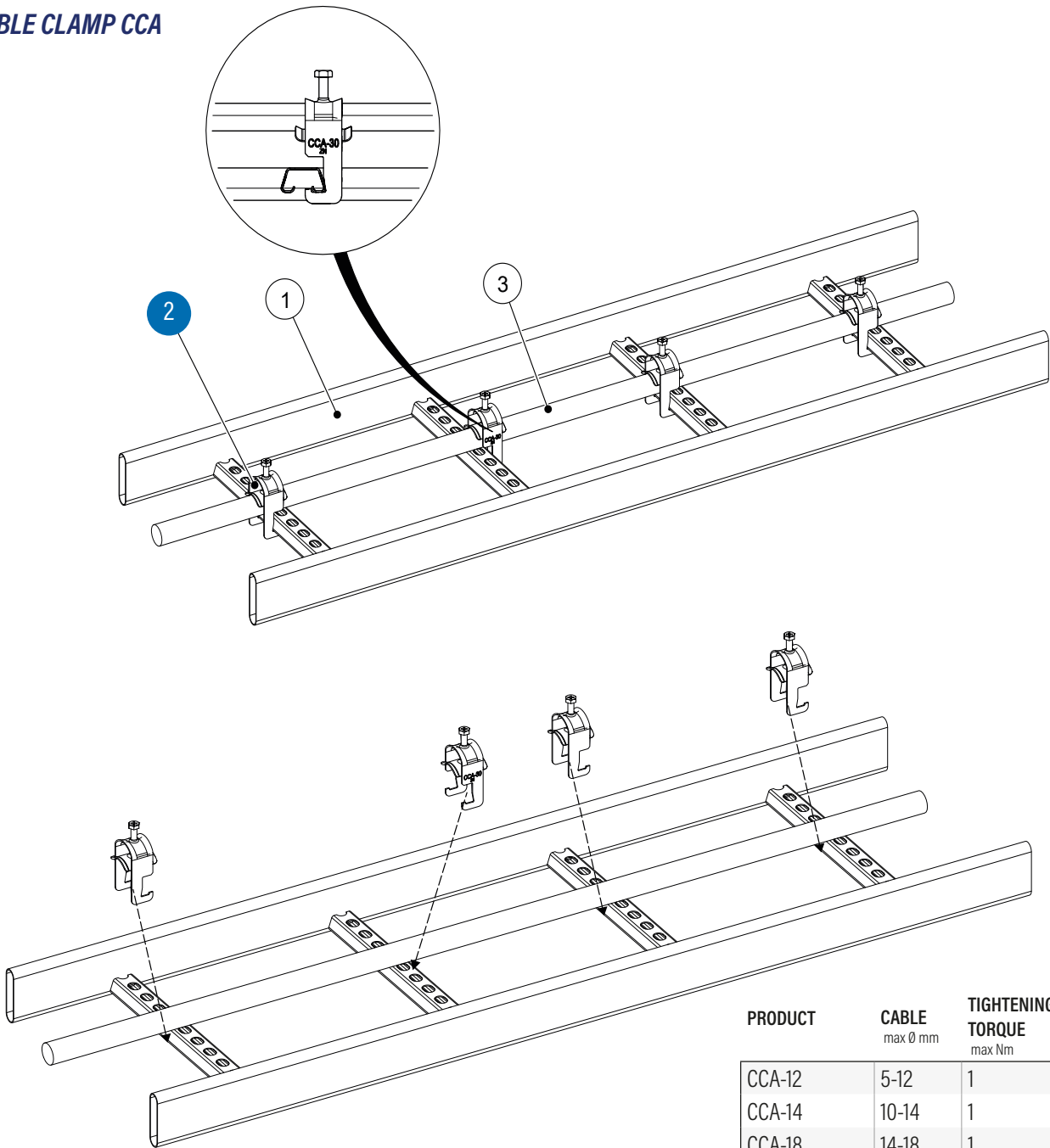


NO	PRODUCT		PCS
1	Cable ladder	KS	2
2	T-branch bracket	VF	2
3	End bracket	ÄF	6
4	Mounting rail	AS	2
5	Gate support	TPK	1
6	Bracket	KK	2
7	Bolt set	RS2	2
8	End plug	ÄP	4

CABLE LADDERS



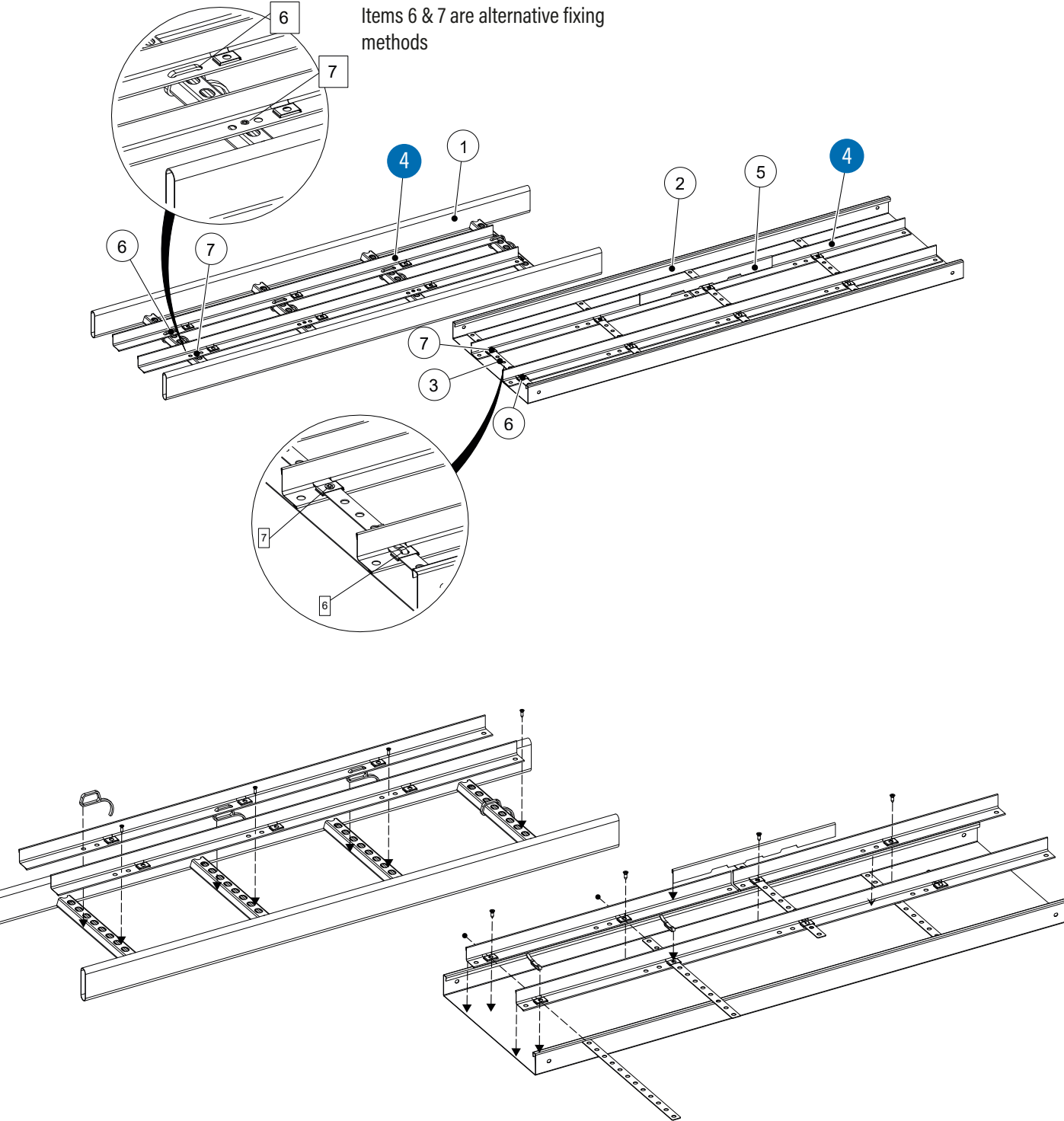
CROSS-SECTIONAL AREA INSTALLATIONS
CABLE CLAMP CCA



PRODUCT	CABLE max Ø mm	TIGHTENING TORQUE max Nm
CCA-12	5-12	1
CCA-14	10-14	1
CCA-18	14-18	1
CCA-22	17-22	1.5
CCA-26	21-26	1.5
CCA-30	25-30	1.5
CCA-34	29-34	1.5
CCA-40	35-40	2
CCA-46	41-46	2
CCA-52	47-52	2
CCA-60	53-60	3
CCA-82	61-82	3

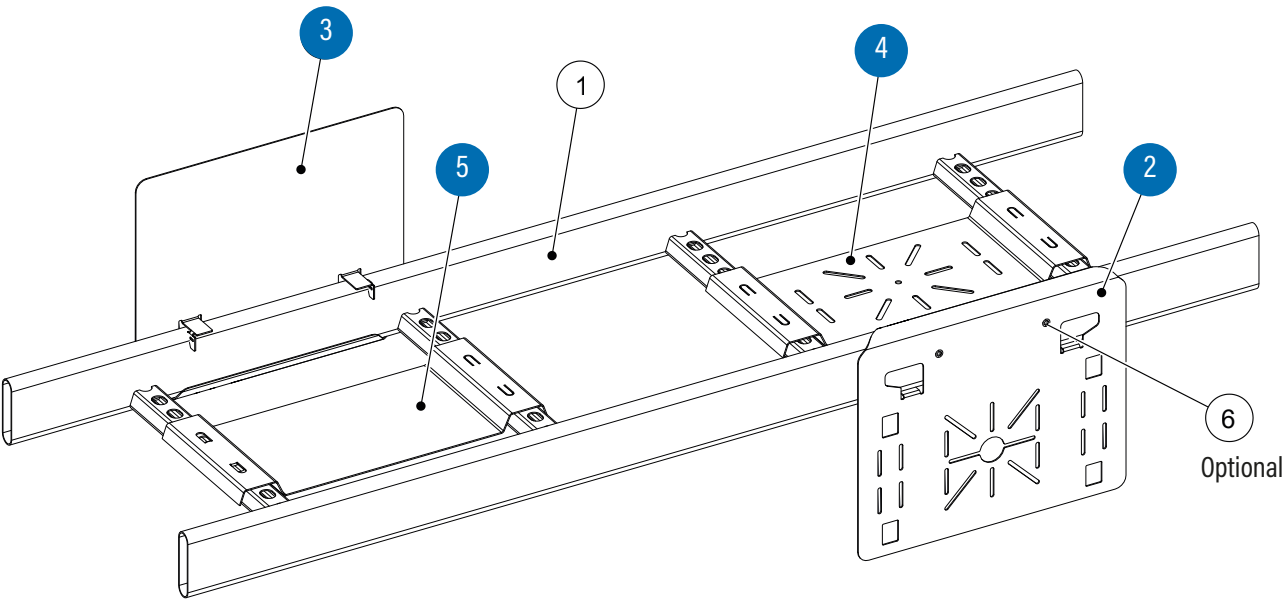
NO	PRODUCT		PCS
1	Cable ladder	KS	1
2	Cable clamp	CCA	4
3	Cable		1

CROSS-SECTIONAL AREA INSTALLATIONS
SEPARATION PLATE AP

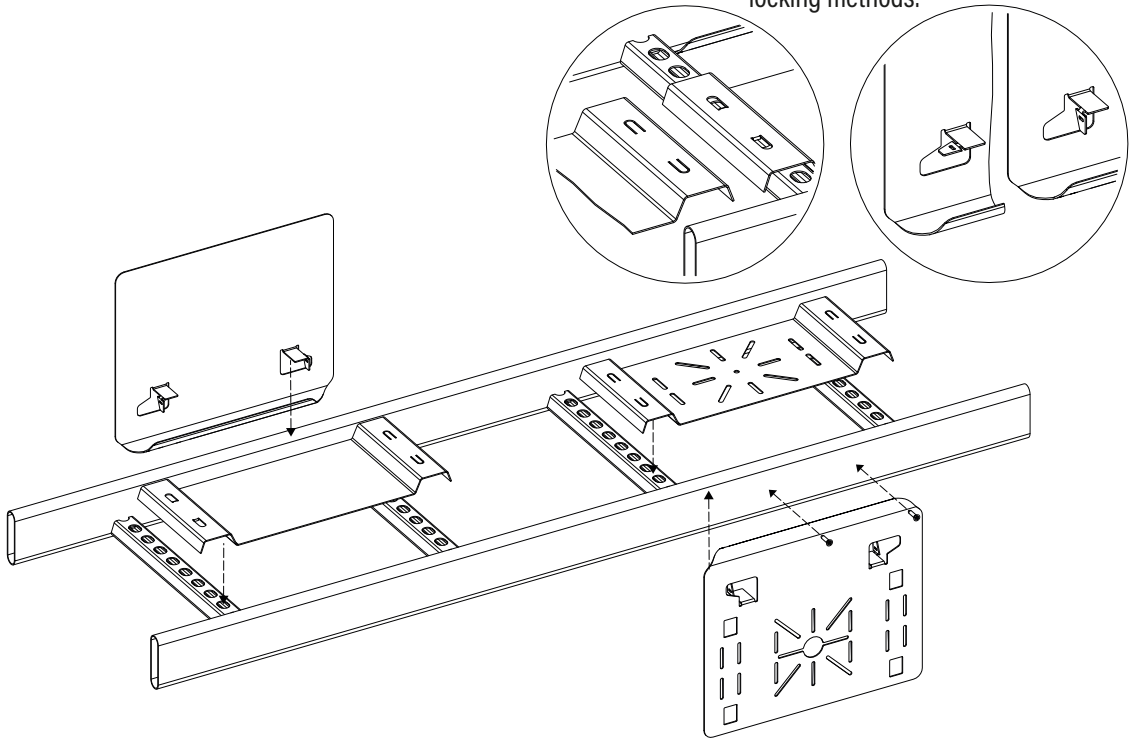


NO	PRODUCT		PCS
1	Cable ladder	KS	1
2	Cable tray	KRA / KRB	1
3	Separation plate support	APT	4
4	Separation plate	AP	5
5	Coupling piece Joint	APJ	1
6	Cable tie		8
7	Drilling screw		8

CROSS-SECTIONAL AREA INSTALLATIONS
MOUNTING PLATES DPA/DPB AND DPA-O/DPB-O

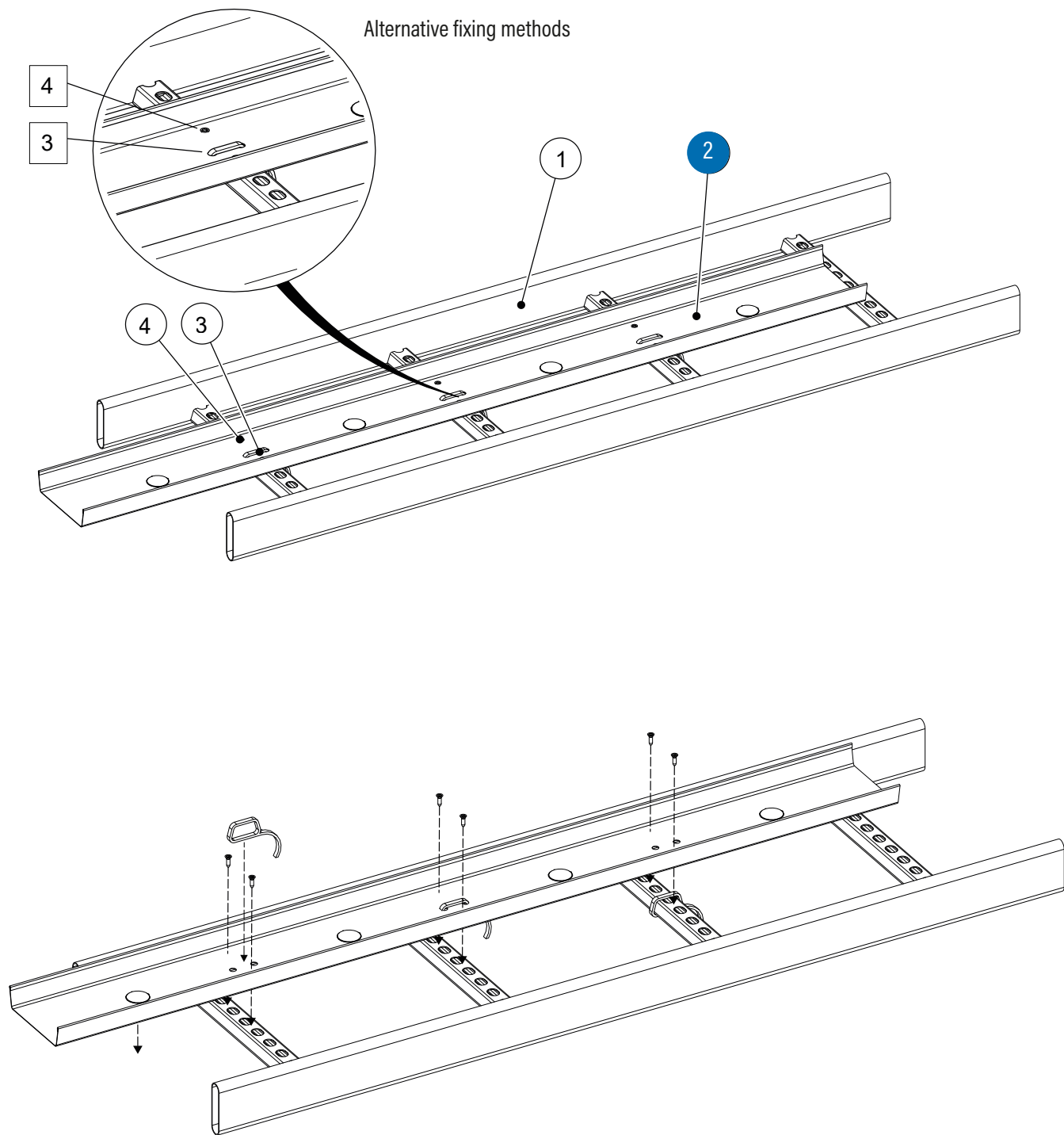


locking methods:



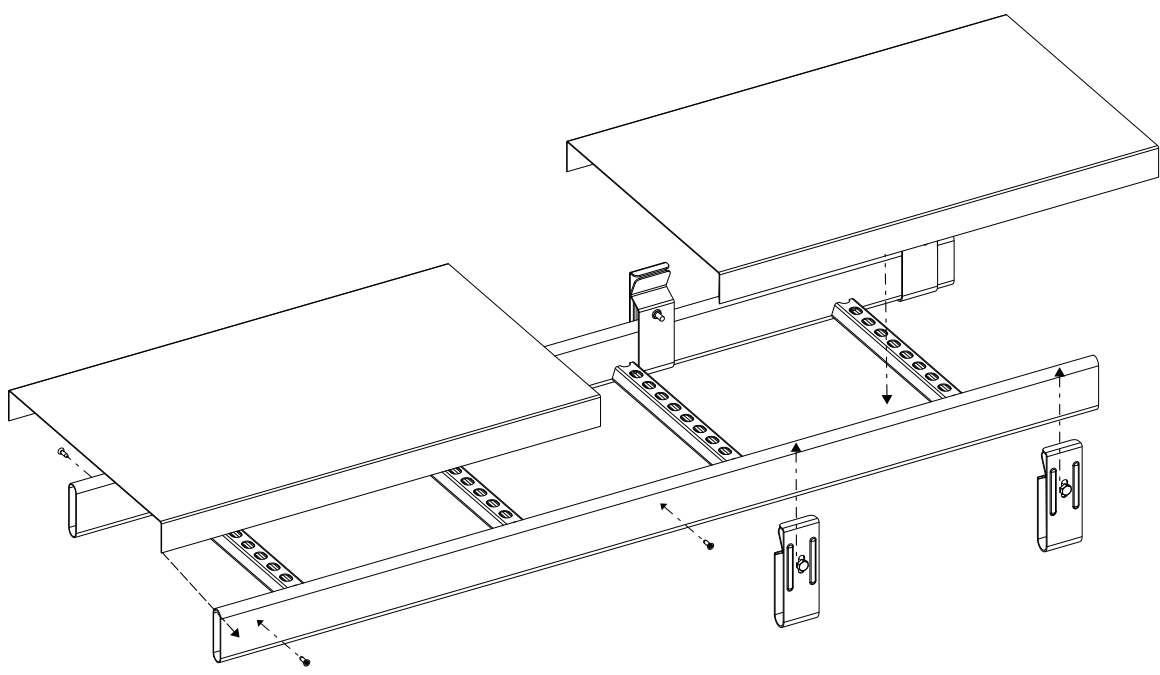
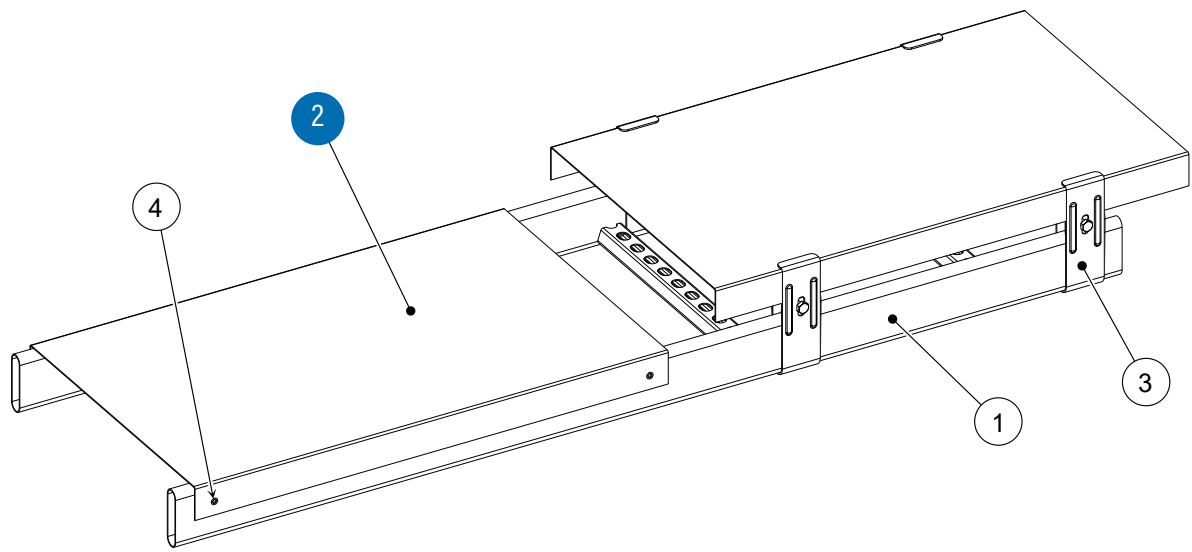
NO	PRODUCT		PCS
1	Cable ladder	KS	1
2	Mounting plate	DPA	1
3	Mounting plate	DPA-O	1
4	Mounting plate	DPB	1
5	Mounting plate	DPB-O	1
6	Sheet metal screw		

CROSS-SECTIONAL AREA INSTALLATIONS
LOW VOLTAGE GUTTER SR



NO	PRODUCT	PCS	
1	Cable ladder	KS	1
2	Low voltage gutter	SR	1
3	Cable tie		3
4	Drilling screw		6

COVERING
COVER KRL-KS

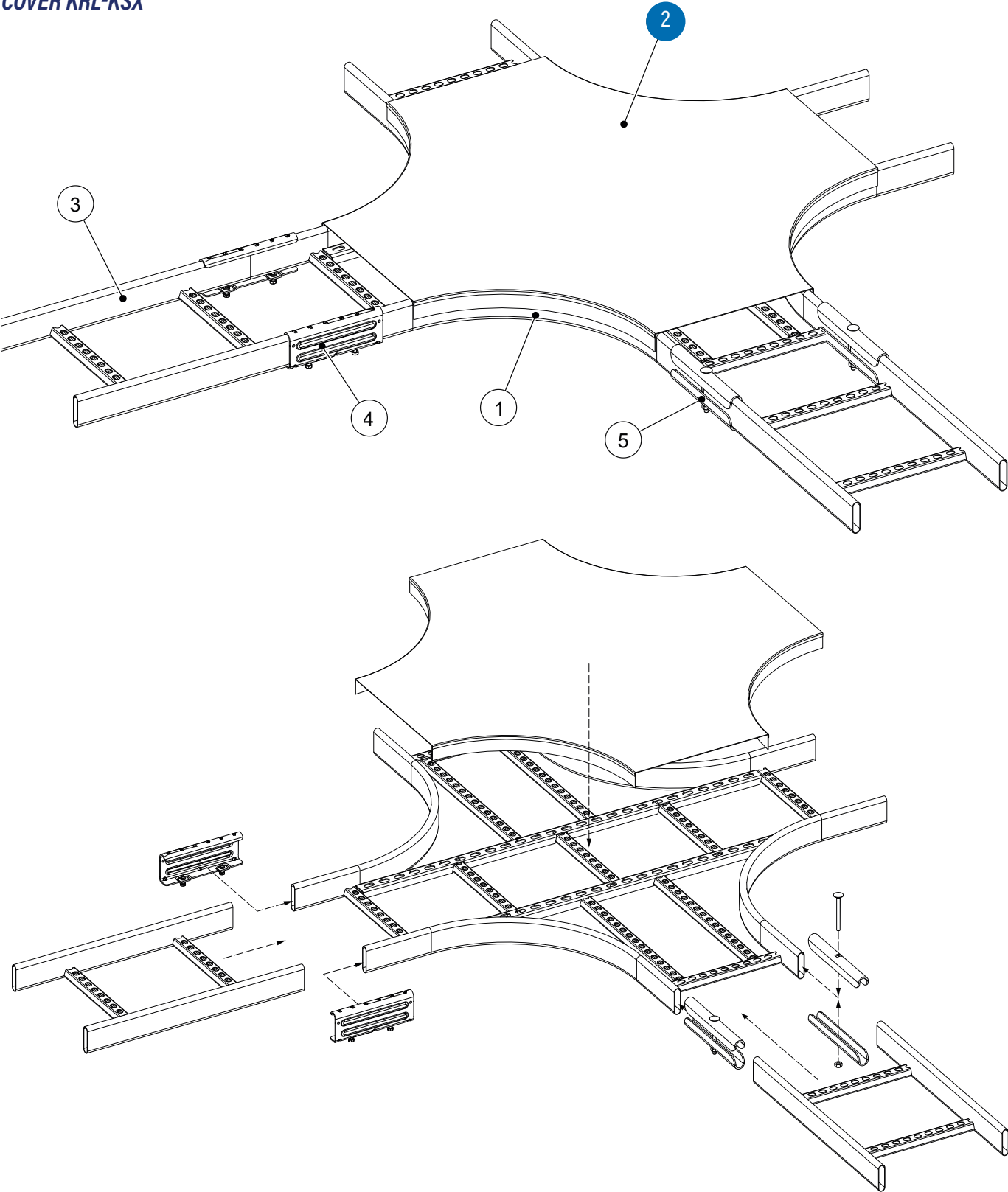


NO	PRODUCT		PCS
1	Cable ladder	KS	1
2	Cover	KRL-KS	2
3	Cover bracket	KAP	4
4	Sheet metal screw		4

CABLE LADDERS



COVERING
COVER KRL-KSX

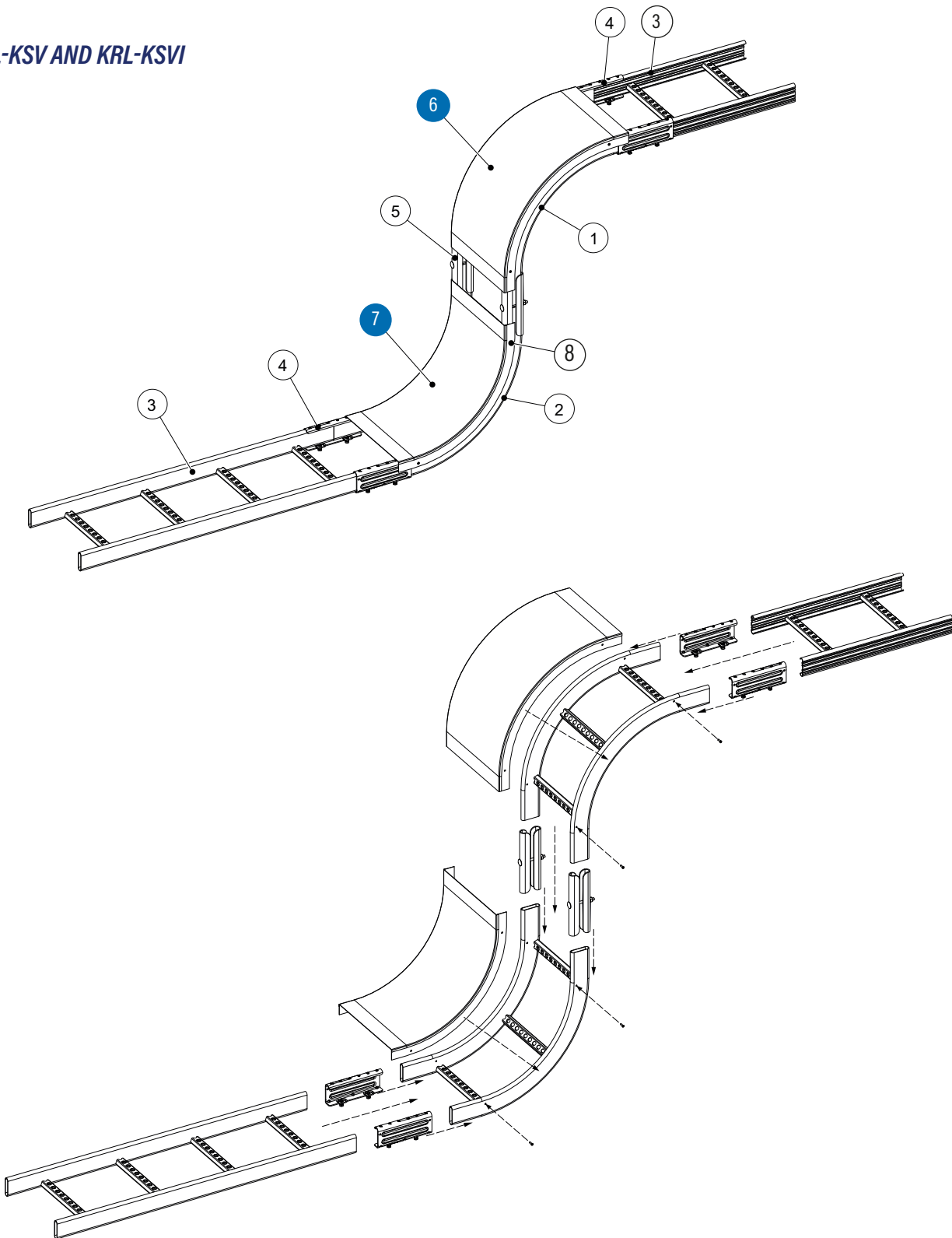


NO	PRODUCT		PCS
1	X-piece	KSX	1
2	Cover	KRL-KSX	1
3	Cable ladder	KS	2
4	Joint	SSR	2
5	Joint	SSU	2

CABLE LADDERS



COVERING
COVERS KRL-KSV AND KRL-KSVI

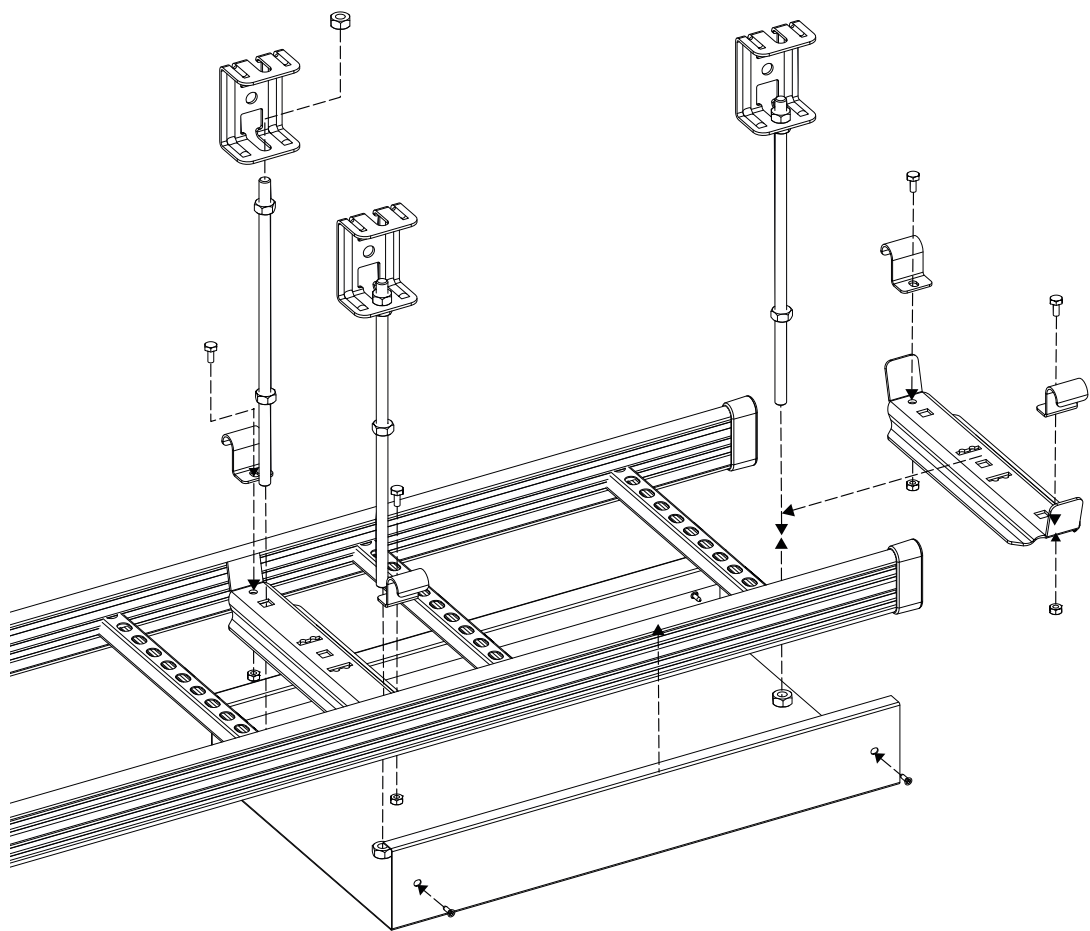
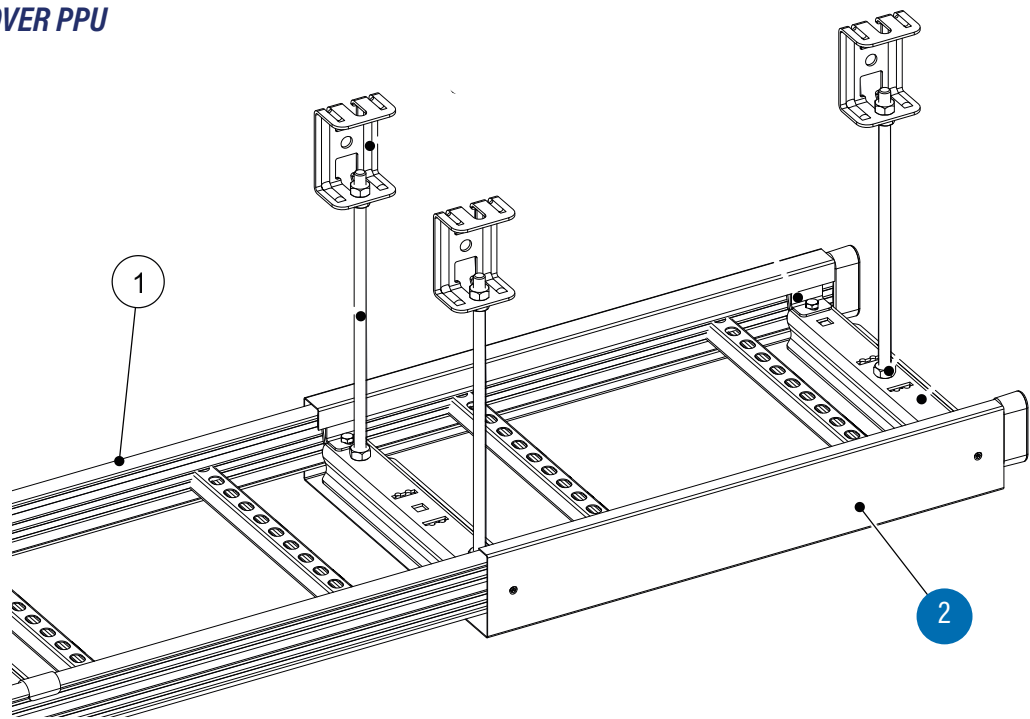


NO	PRODUCT		PCS
1	Vertical bend, outside	KSV	1
2	Vertical bend, inside	KSVI	1
3	Cable ladder	KS	2
4	Joint	SSR	4
5	Joint	SSU	2
6	Cover	KRL-KSV	1
7	Cover	KRL-KSVI	1
8	Sheet metal screw		8

CABLE LADDERS



COVERING
BOTTOM COVER PPU

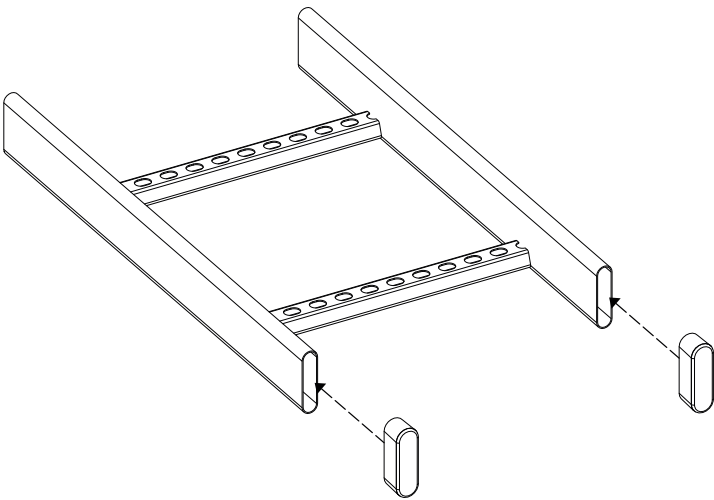
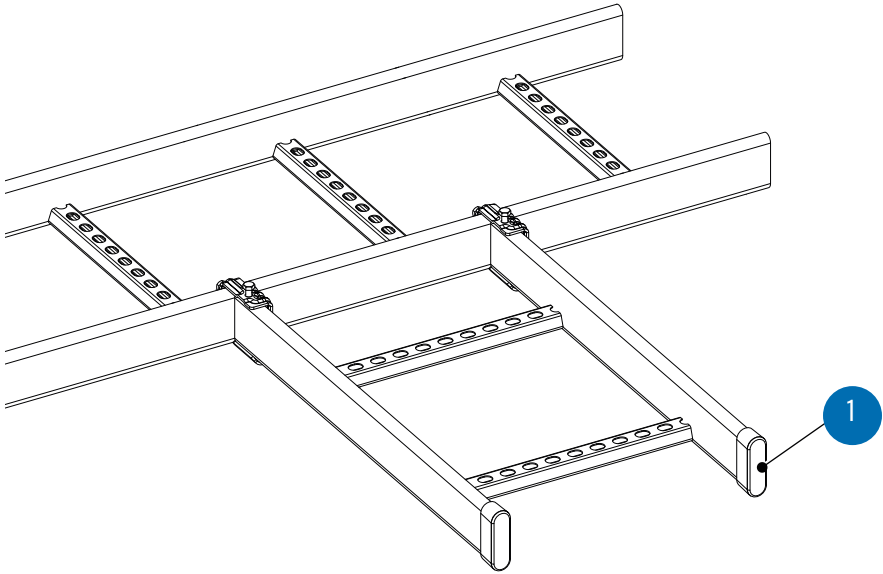


NO	PRODUCT		PCS
1	Cable ladder	KS20 / KS60	1
2	Bottom cover	PPU	1

CABLE LADDERS



COVERING
END PLUG ÄP



NO	PRODUCT	PCS
1	End plug	ÄP

INSTALLATION INSTRUCTIONS

CABLE TRAYS | EXTENSIONS | SUPPORTS | COVERING

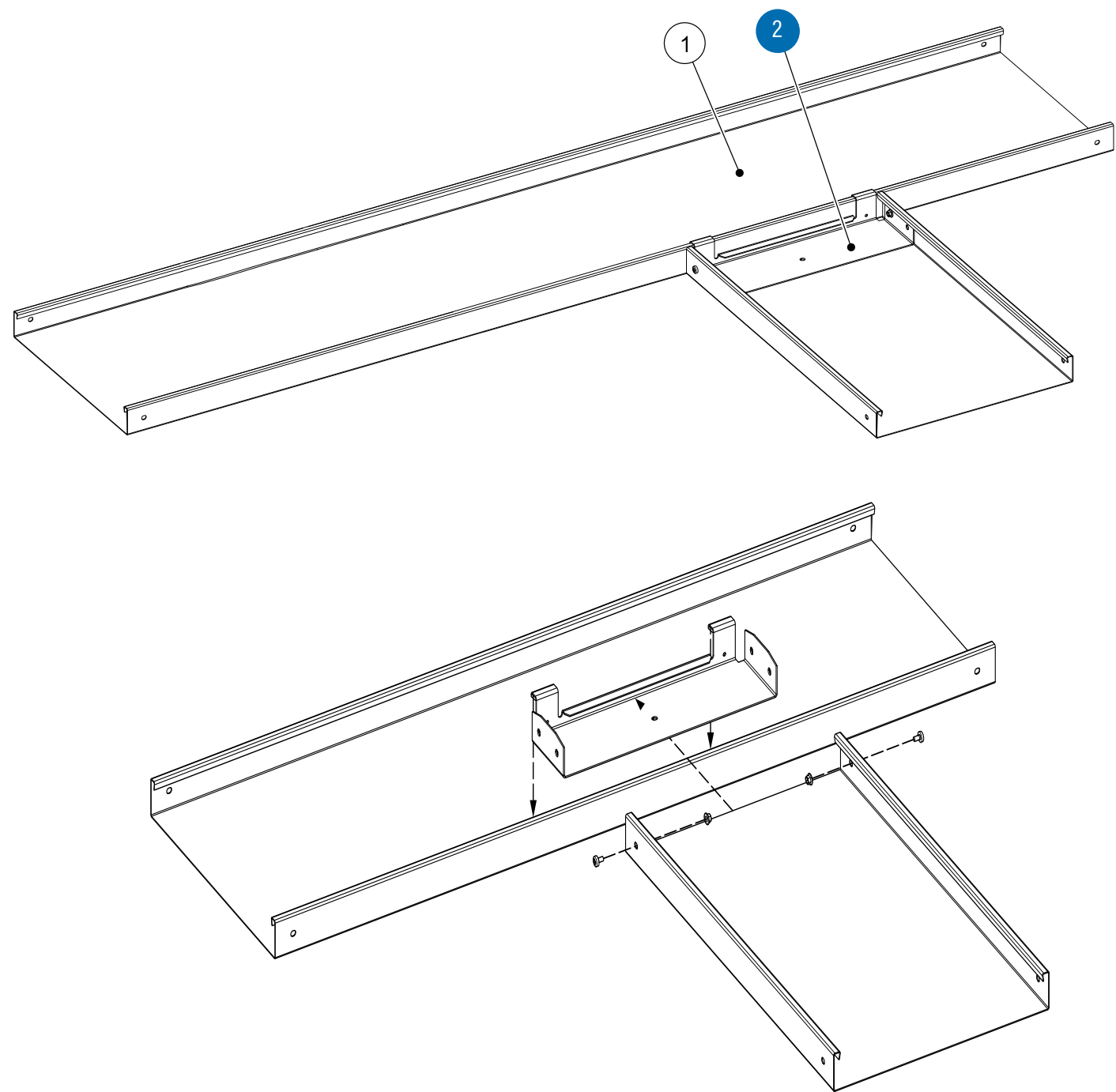


CABLE TRAYS



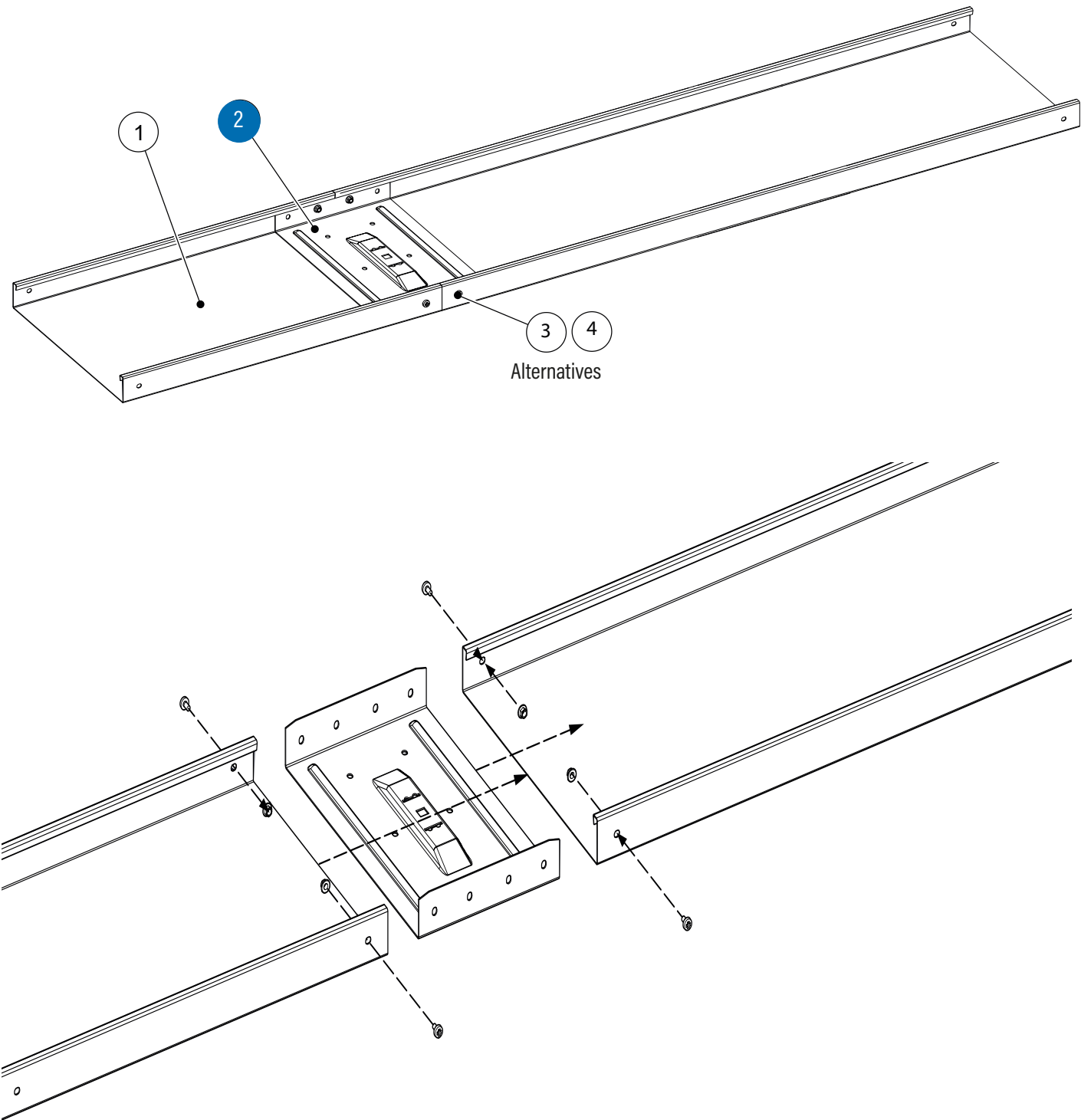
EXTENSIONS

T-BRANCH BRACKET TKU

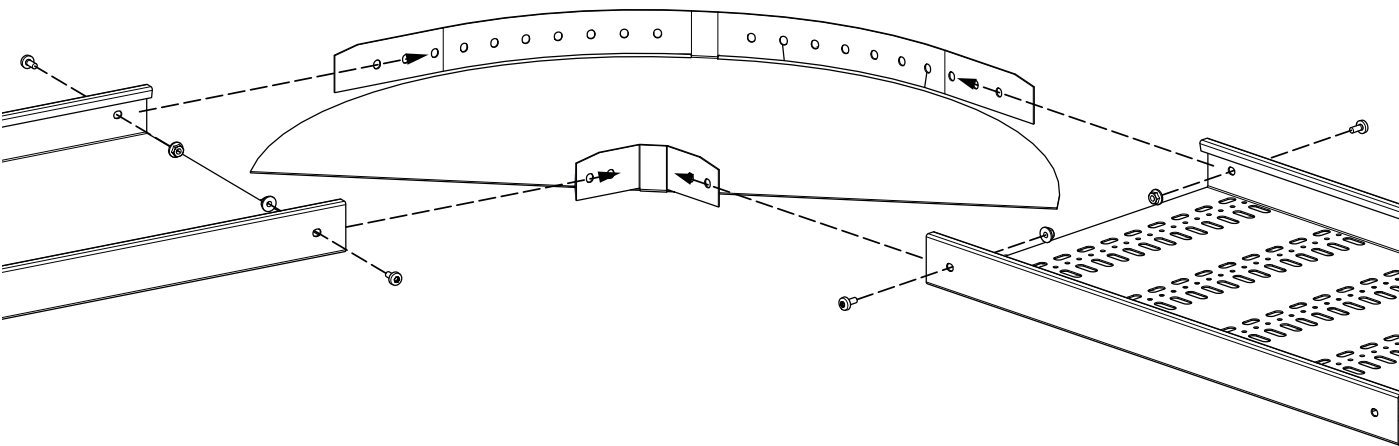
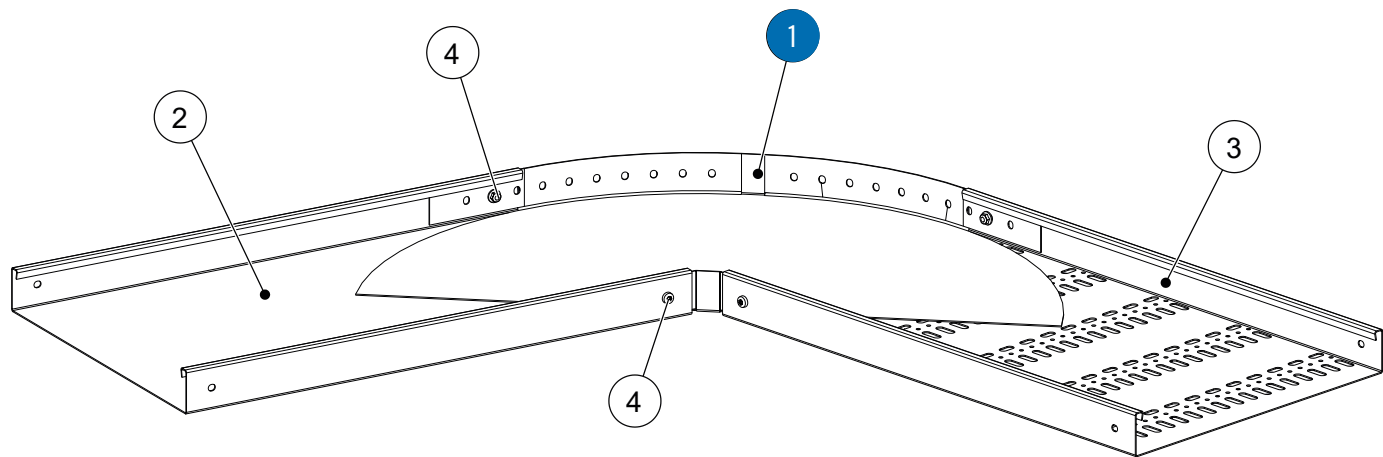


NO	PRODUCT		PCS
1	Cable tray	KRA	3
2	T-branch bracket	TKU	1

EXTENSIONS
JOINT RSS



NO	PRODUCT		PCS
1	Cable tray	KRA	3
2	Joint	RSS	1
3	Bolt set	RS MEK J 10	6
4	Bolt set	RS TKU M	6

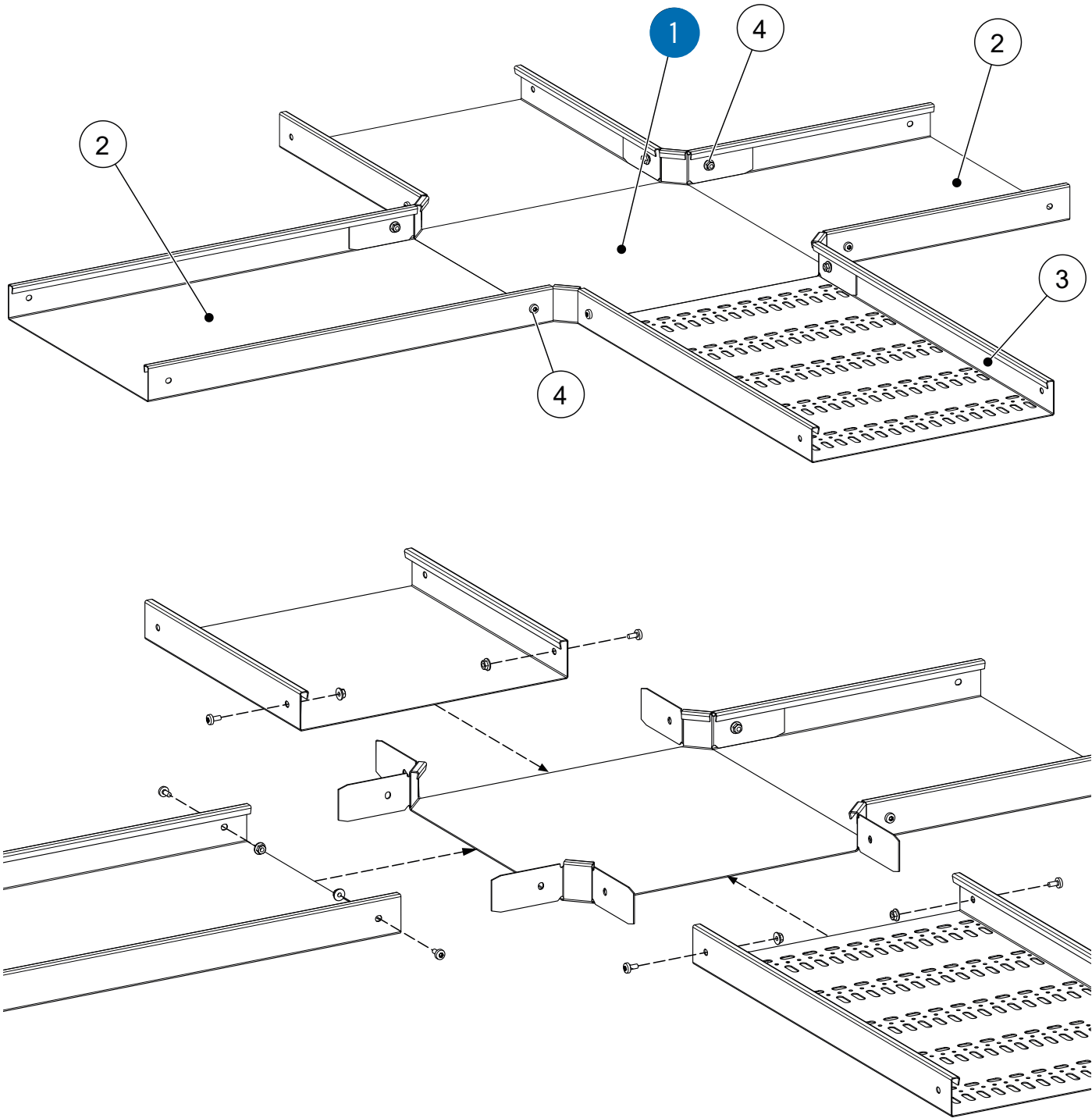


NO	PRODUCT		PCS
1	Adjustable corner piece	SRS	1
2	Cable tray	KRA	1
3	Cable tray	KRB	1
4	Screw set	RS MEK J 10 EG / RS TKU M	4

CABLE TRAYS



EXTENSIONS
X-PIECE RX



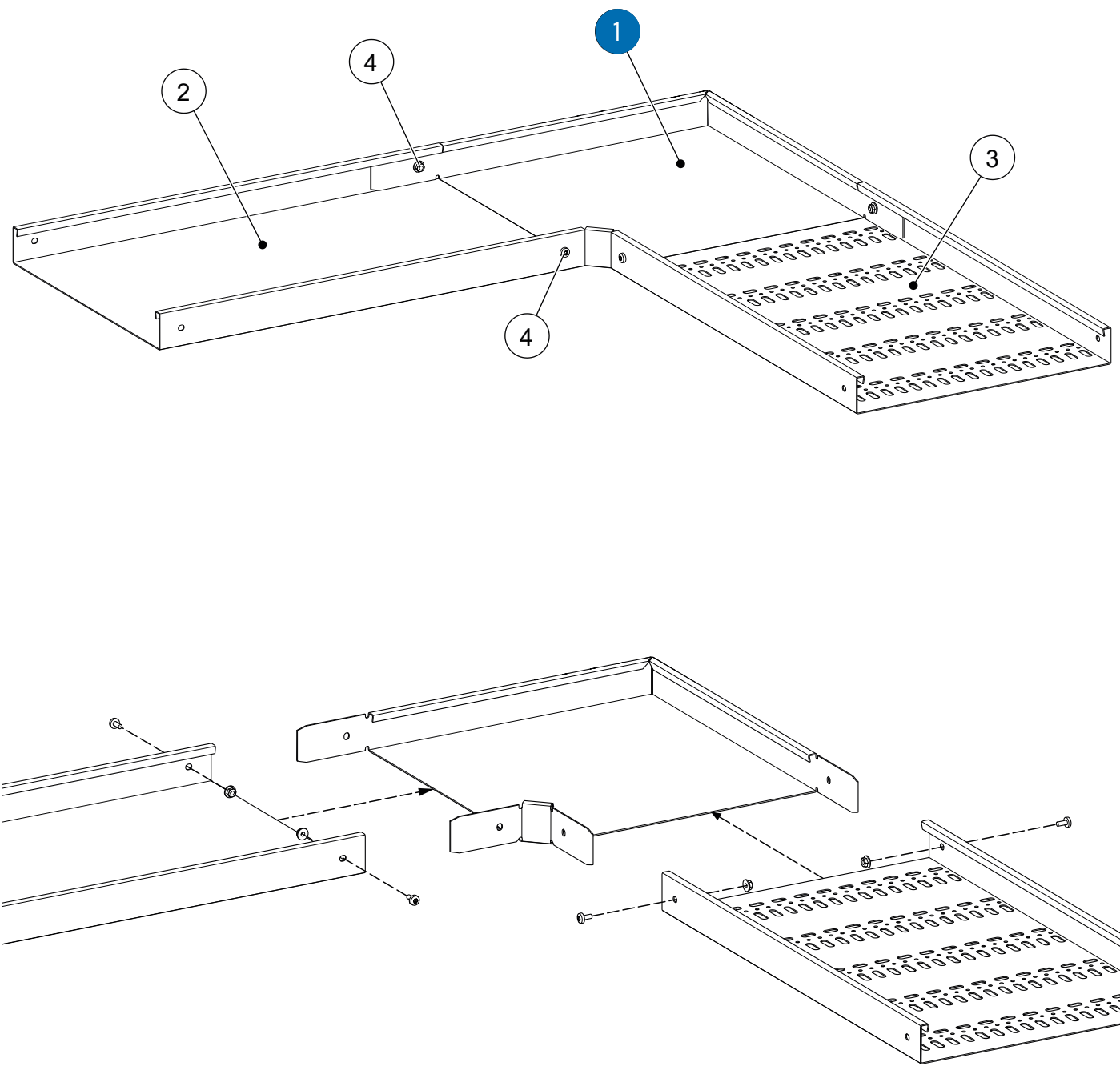
NO	PRODUCT		PCS
1	X-piece	RX	1
2	Cable tray	KRA	3
3	Cable tray	KRB	1
4	Screw set	RS MEK J 10 EG / RS TKU M	8

CABLE TRAYS

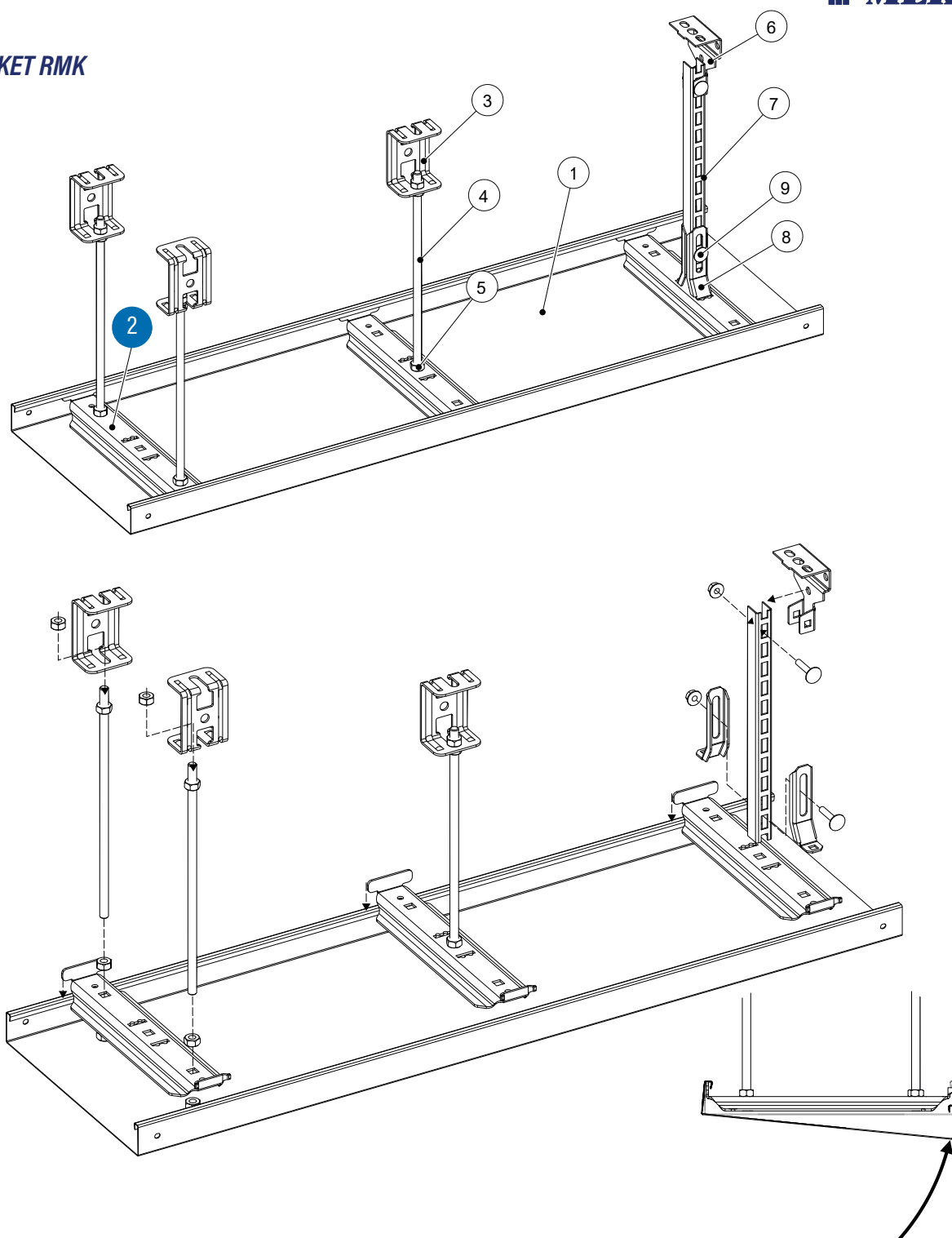


EXTENSIONS

CORNER PIECE RS90



NO	PRODUCT		PCS
1	Corner piece	RS90	1
2	Cable tray	KRA	1
3	Cable tray	KRB	1
4	Screw set	RS MEK J 10 EG / RS TKU M	4

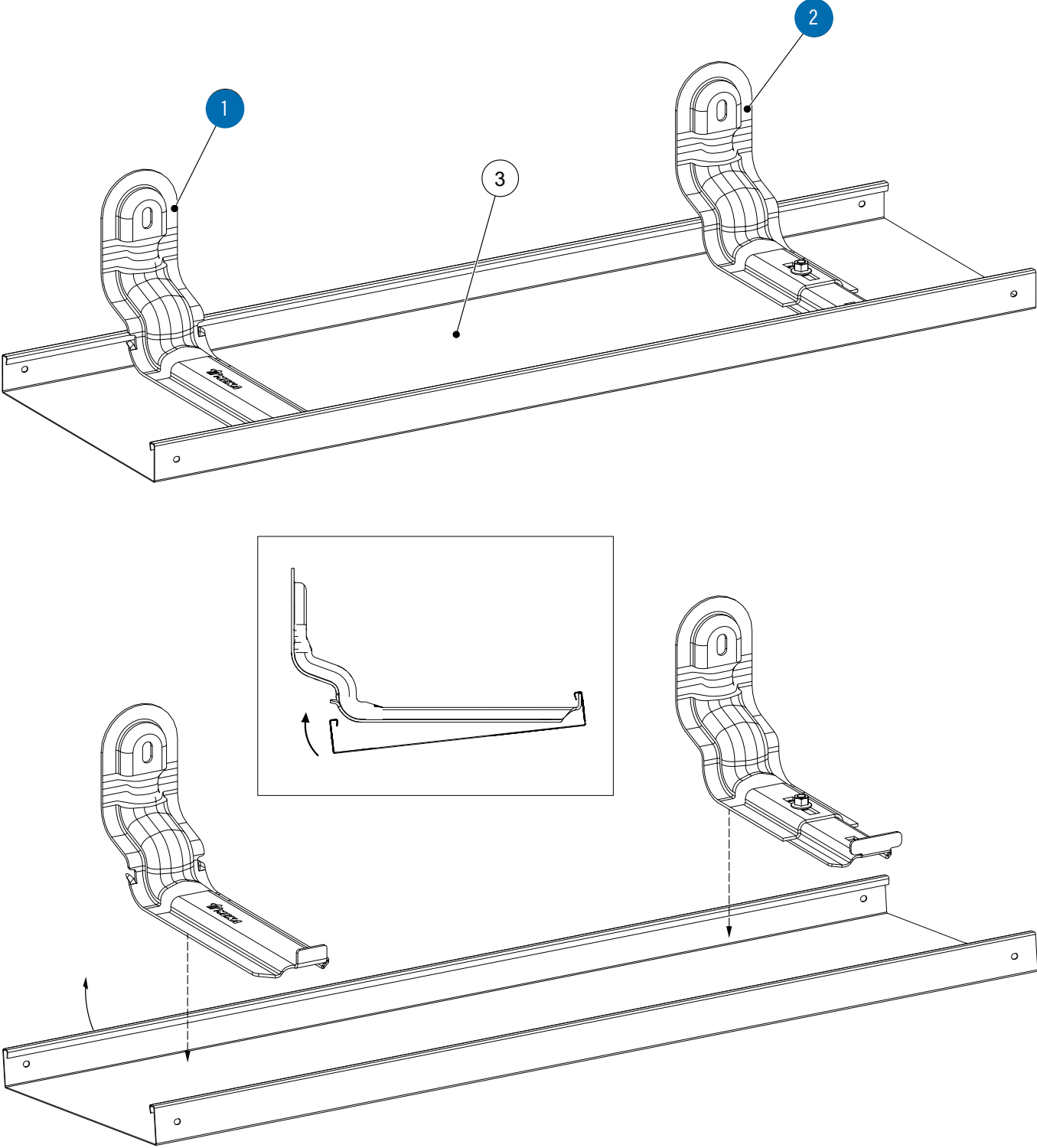


NO	PRODUCT		PCS
1	Cable tray	KRA / KRB	1
2	Intermediate support	RMK	3
3	Ceiling bracket	RTF-10 / RTF-16	3
4	Threaded rod	GT-10 / GT 16	3
5	Nut	MU M10 / MU M16	12
6	Ceiling bracket	PF	1
7	Mounting rail	PS	1
8	Bracket for PS rail	PSF	2
9	Bolt set	RS-PSF	2

CABLE TRAYS

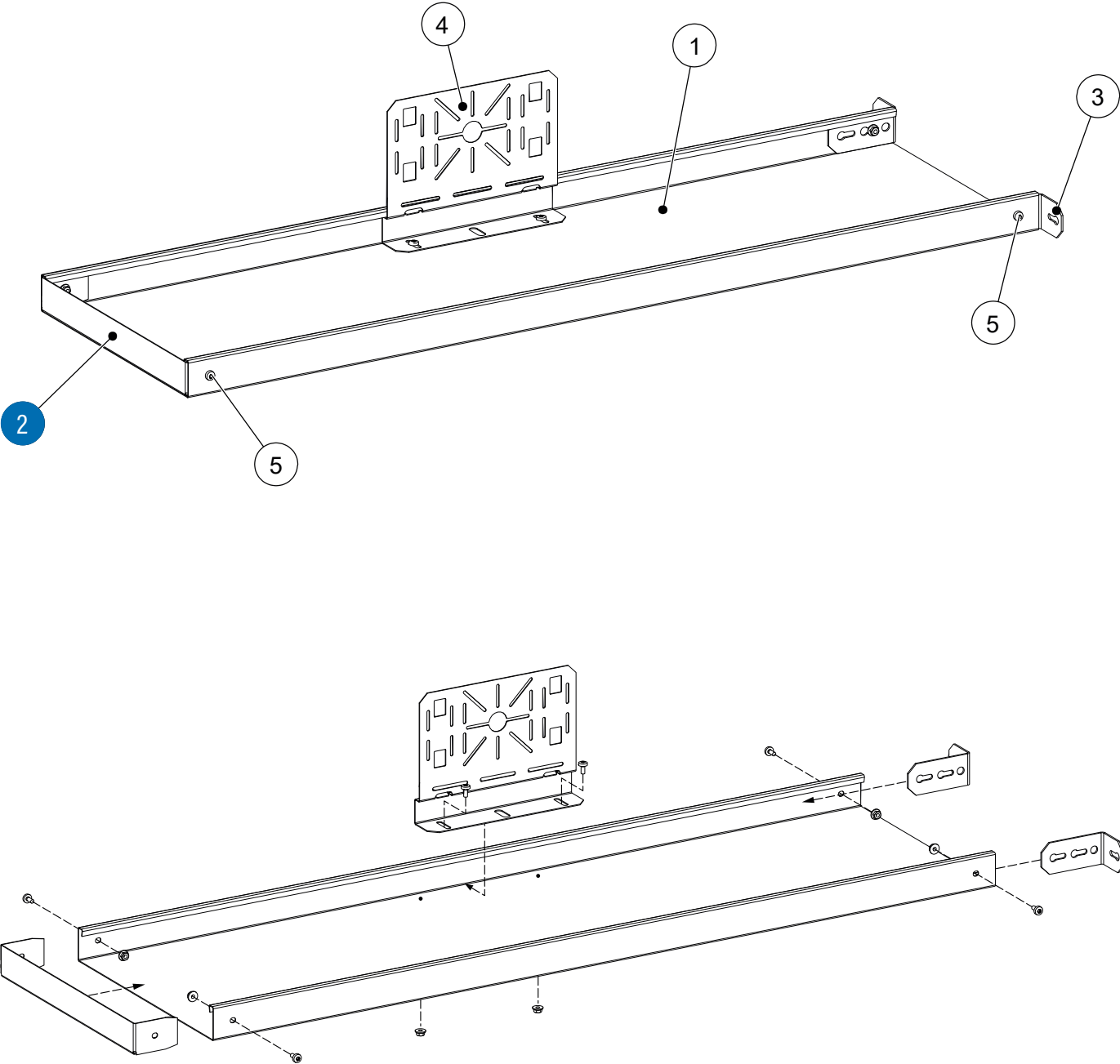


SUPPORTS
WALL BRACKET RVK AND SVK



NO	PRODUCT		PCS
1	Wall bracket	RVK	1
2	Wall bracket, adjustable	SVK	1
3	Cable tray	KRA / KRB	1

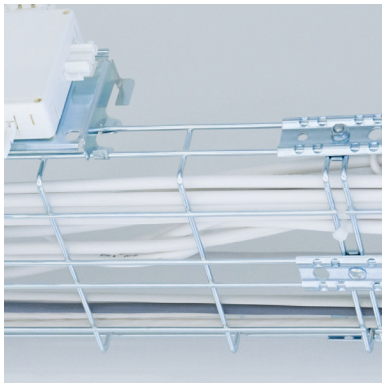
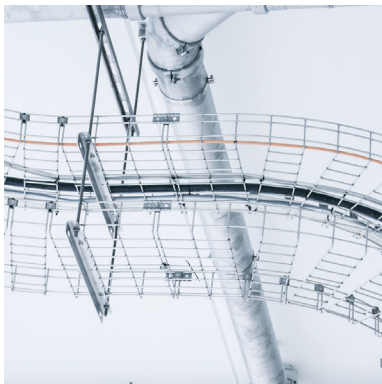
COVERING
END PLATE P KRA



NO	PRODUCT		PCS
1	Cable tray	KRA / KRB	1
2	End plate	P KRA	1
3	End bracket	RÄF	2
4	Mounting plate	RDP	1
5	Screw set	RS MEK J 10 EG / RS TKU M	4

INSTALLATION INSTRUCTIONS

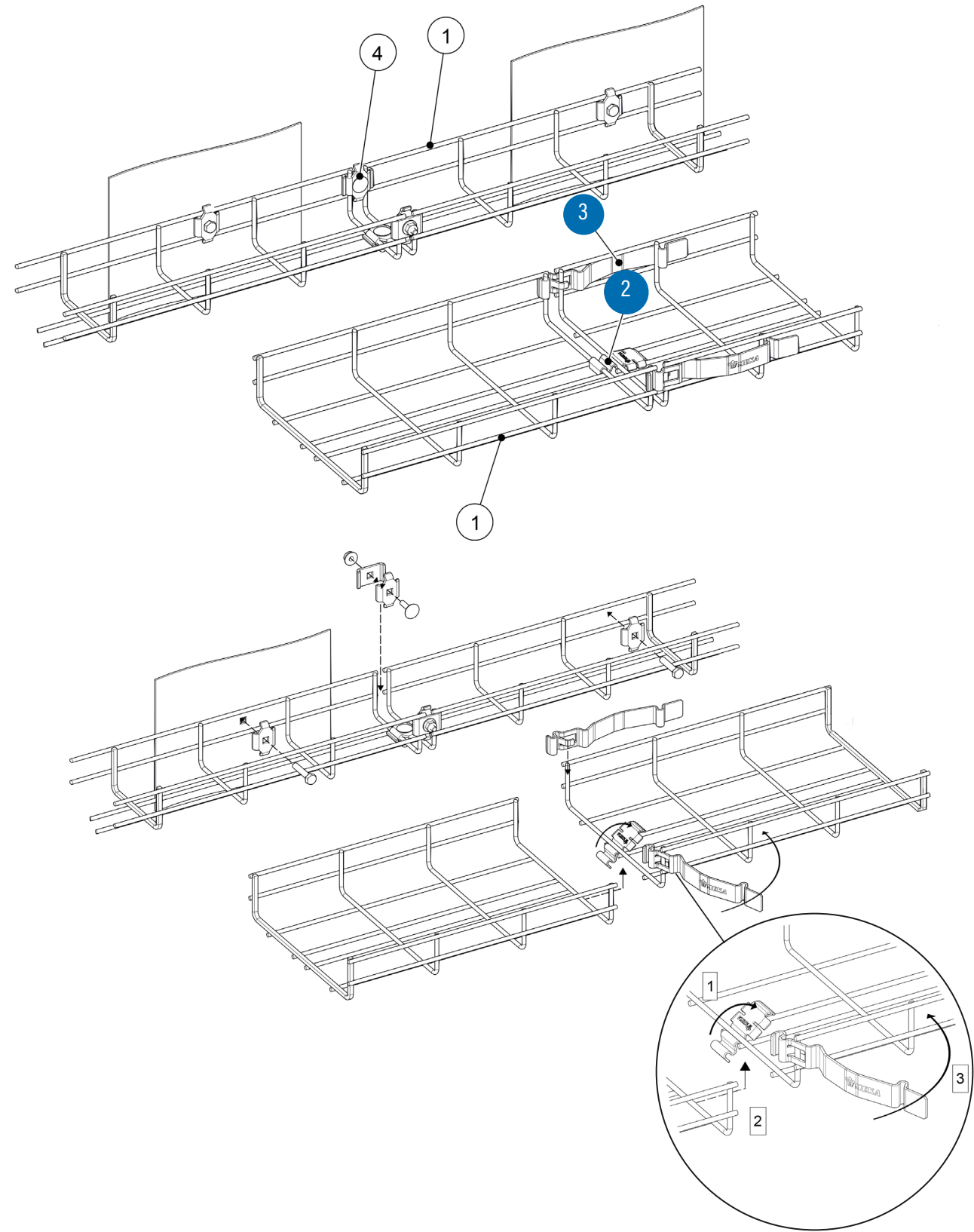
WIRE MESH TRAYS | EXTENSIONS | SUPPORTS | CROSS-SECTIONAL AREA INSTALLATIONS



WIRE MESH TRAYS



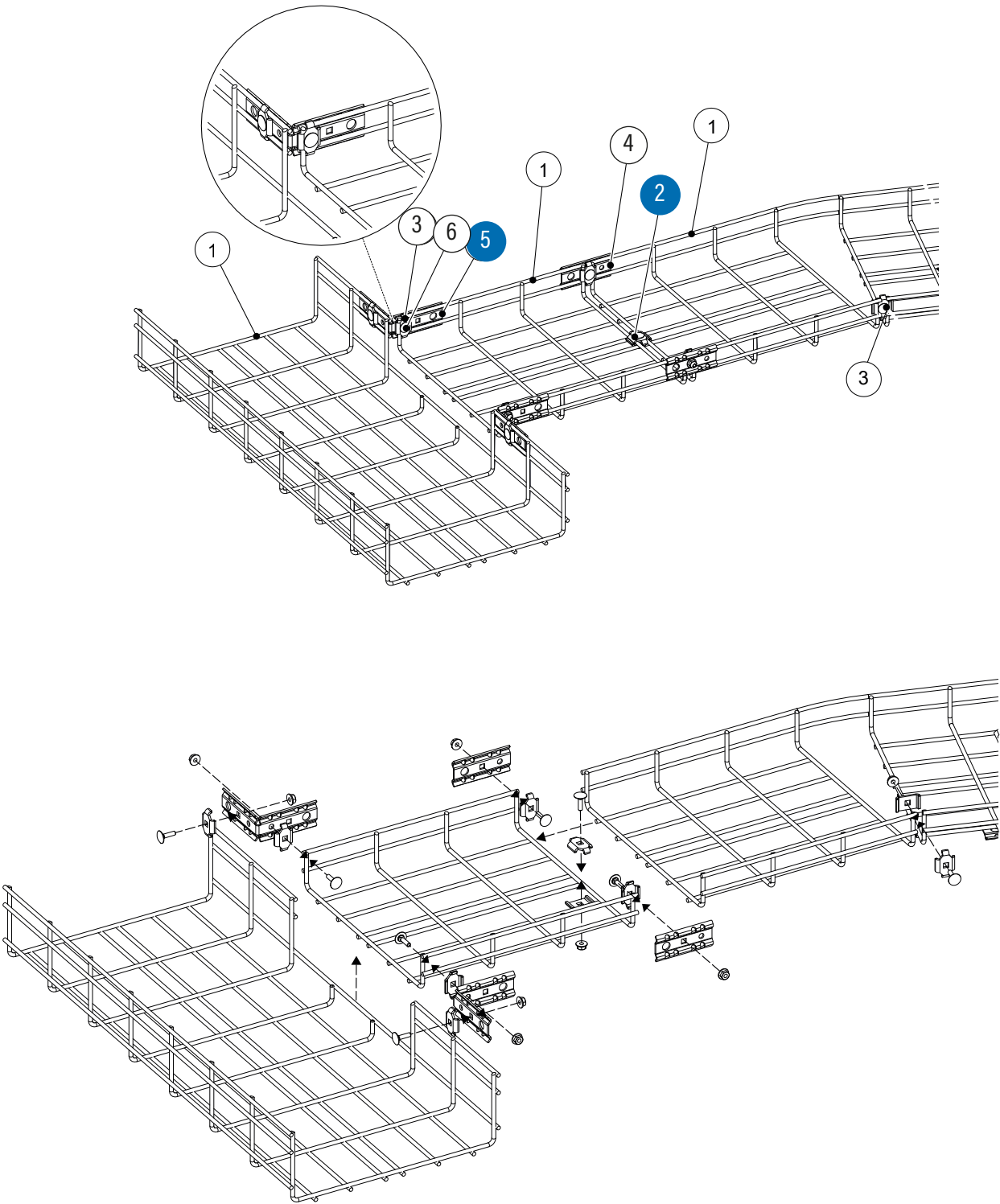
EXTENSIONS
SNAP IN CONNECTORS WMT SC1 AND WMT SC2



NO	PRODUCT		PCS
1	Wire mesh tray	WMT	4
2	Snap in connector	WMT SC1	1
3	Snap in connector	WMT SC2	2
4	Connector set	WMT CL	3

EXTENSIONS

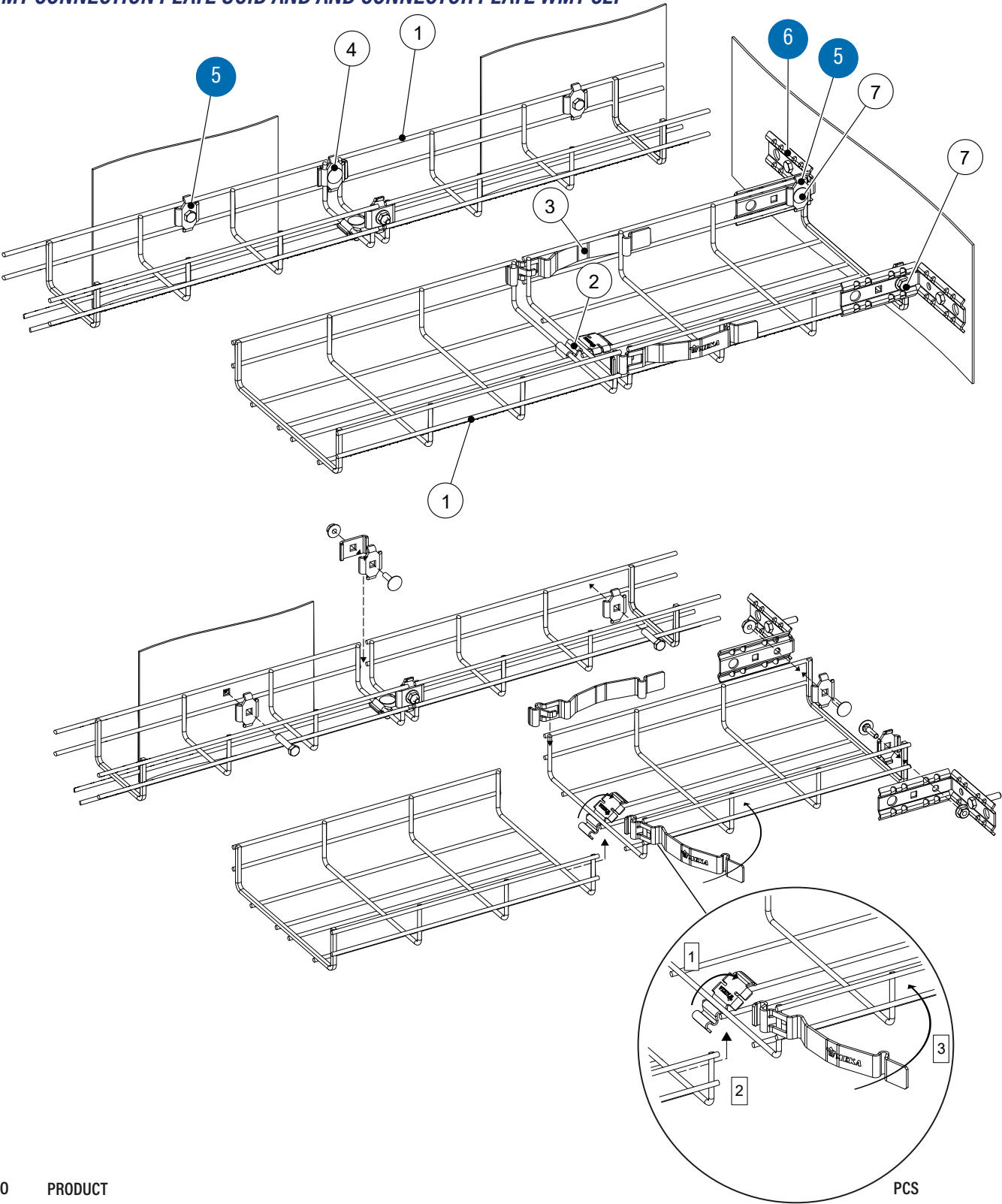
WMT CONNECTOR SET CL AND CONNECTION PLATE WMT UC1D, INCL. WMT CORNER PIECE



NO	PRODUCT		PCS
1	Wire mesh tray	WMT	3
2	Connector set	WMT CL	2
3	Connector plate	WMT CL1	4
4	Connection set	WMT UC	2
5	Connection plate	WMT UC1D	2
6	Bolt set	RS4	4

SUPPORTS

WMT CONNECTION PLATE UC1D AND AND CONNECTOR PLATE WMT CL1

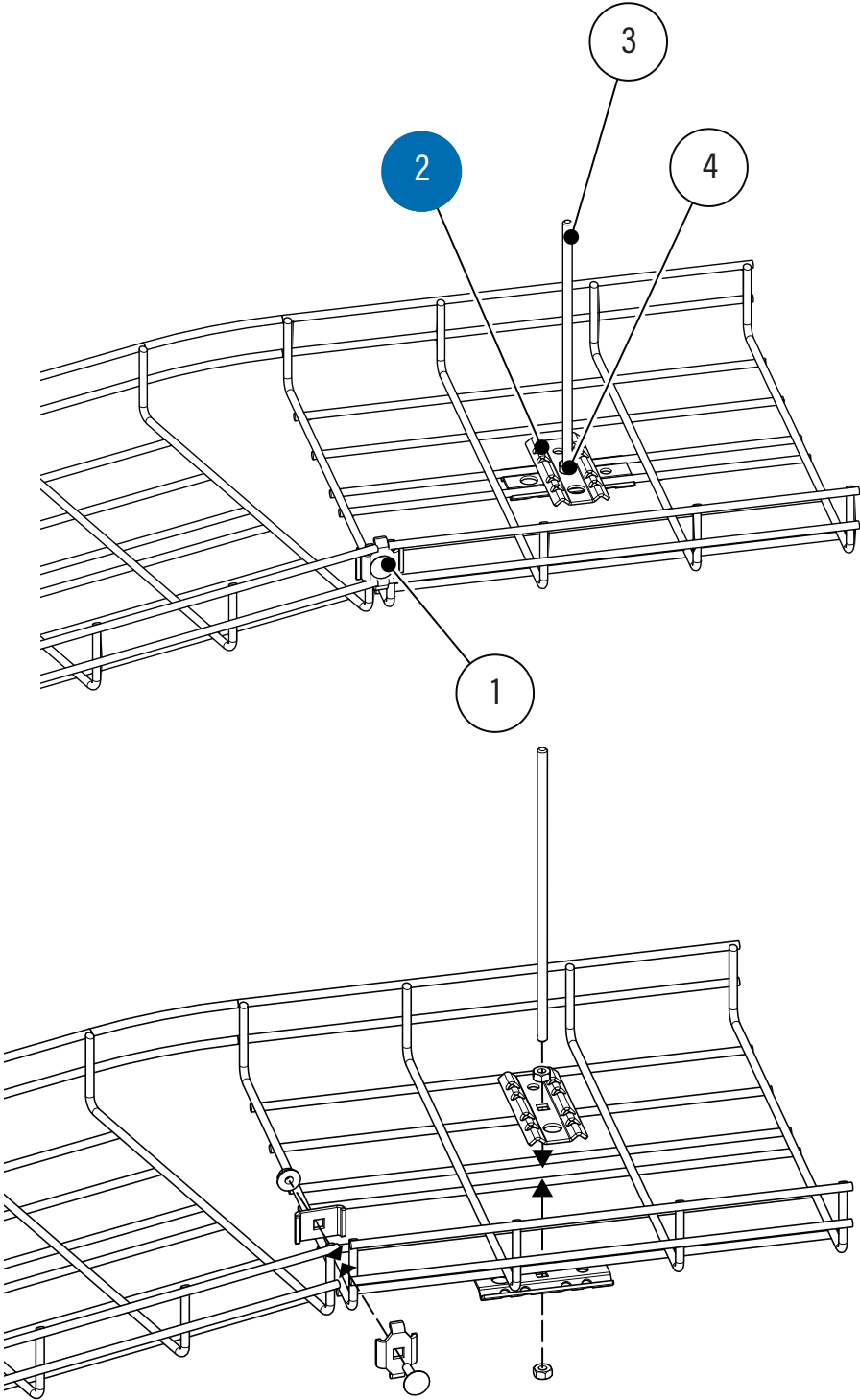


NO PRODUCT

PCS

1	Wire mesh tray	WMT	4
2	Snap in connector	WMT SC1	1
3	Snap in connector	WMT SC2	2
4	Connector set	WMT CL	3
5	Connector plate	WMT CL1	4
6	Connection plate	WMT UC1D	2
7	Bolt set	RS4	2

SUPPORTS
CONNECTION PLATE WMT UC1

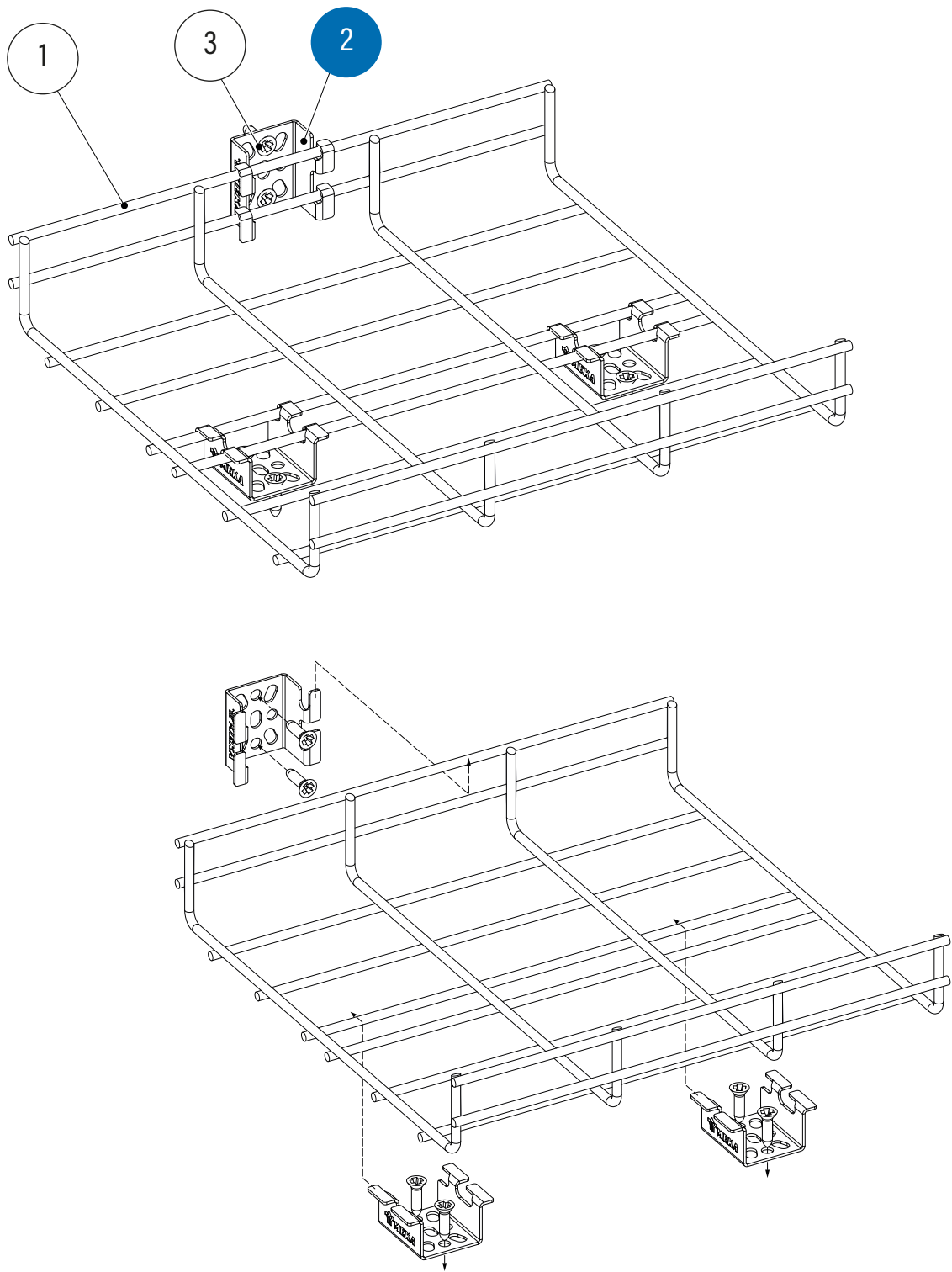


NO	PRODUCT		PCS
1	Connector set	WMT CL	2
2	Connection plate	WMT UC1	2
3	Threaded rod	GT-6	1
4	Nut	MU M6	2

WIRE MESH TRAYS



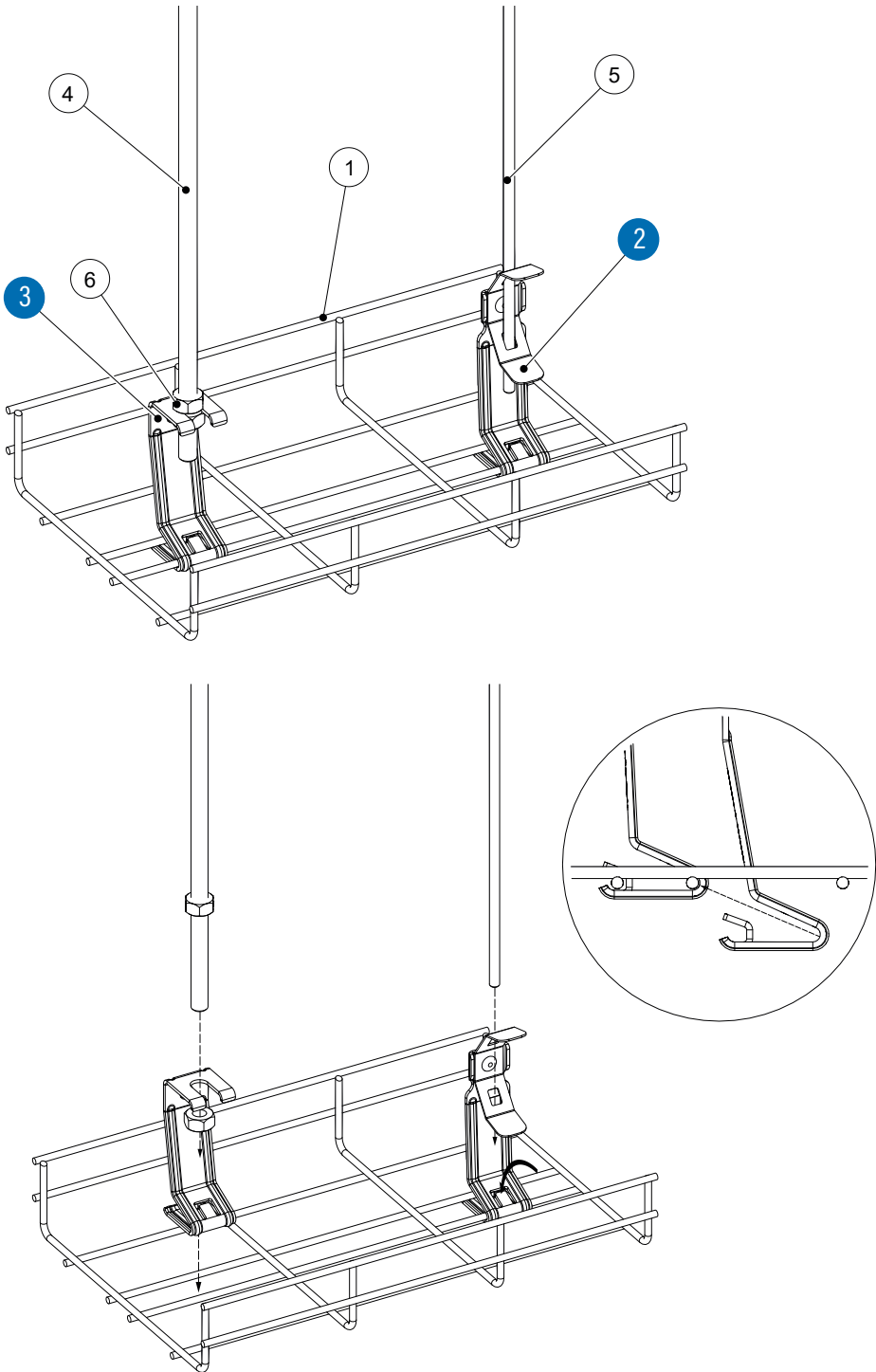
SUPPORTS
WALL BRACKET WB1



NO	PRODUCT		PCS
1	Wire mesh tray	WMT	1
2	Wall bracket	WMT WB1	3
3	Screw		6

SUPPORTS

INTERMEDIATE SUPPORTS WMT CSF-6 AND WMT CS-10

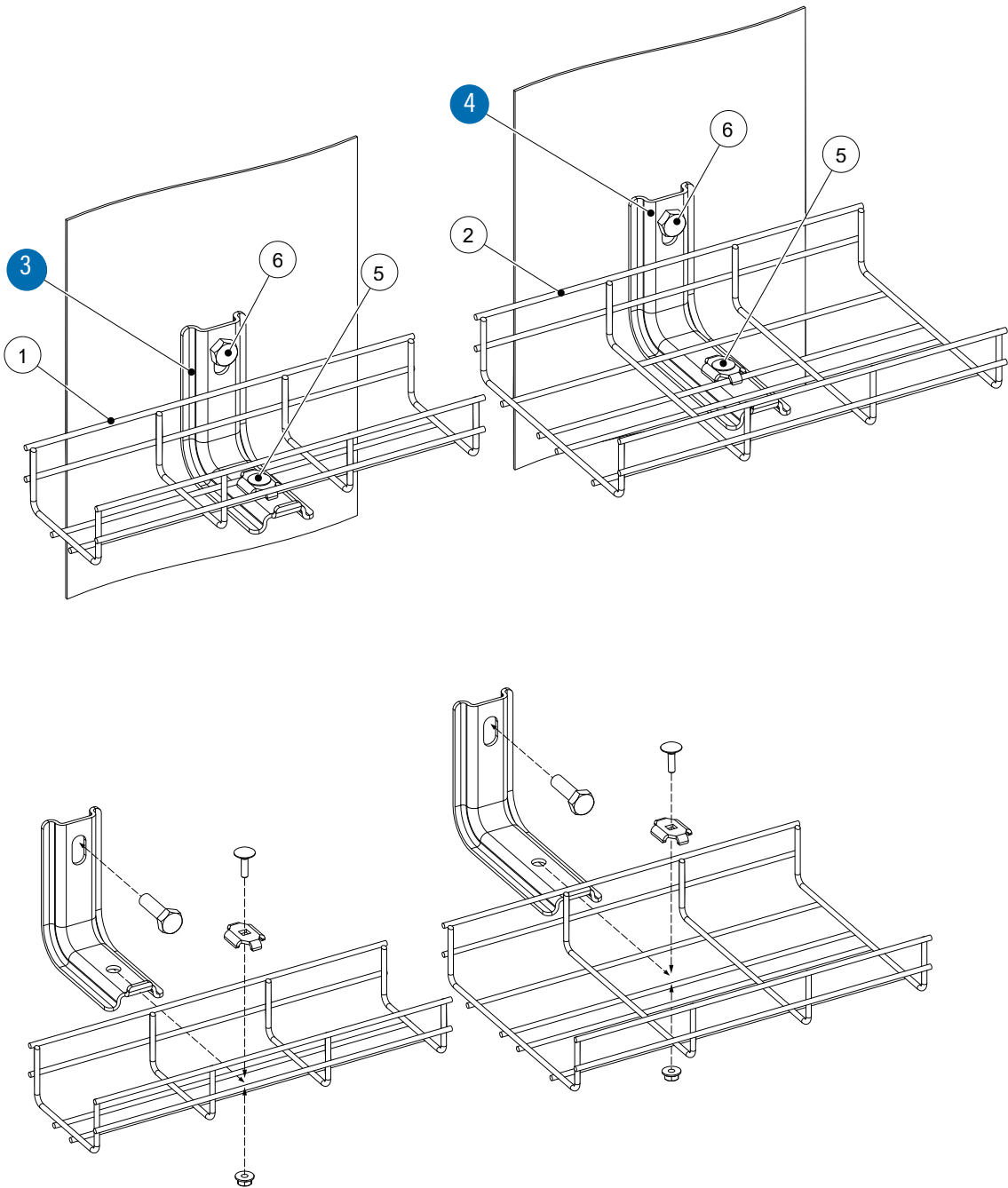


NO	PRODUCT		PCS
1	Wire mesh tray	WMT	1
2	Intermediate support	WMT CSF-6	1
3	Intermediate support	WMT CS-10	1
4	Threaded rod	GT-10	1
5	Threaded rod	GT-6	1
6	Nut	M10	2

WIRE MESH TRAYS



SUPPORTS
WALL SUPPORT MEK-SK

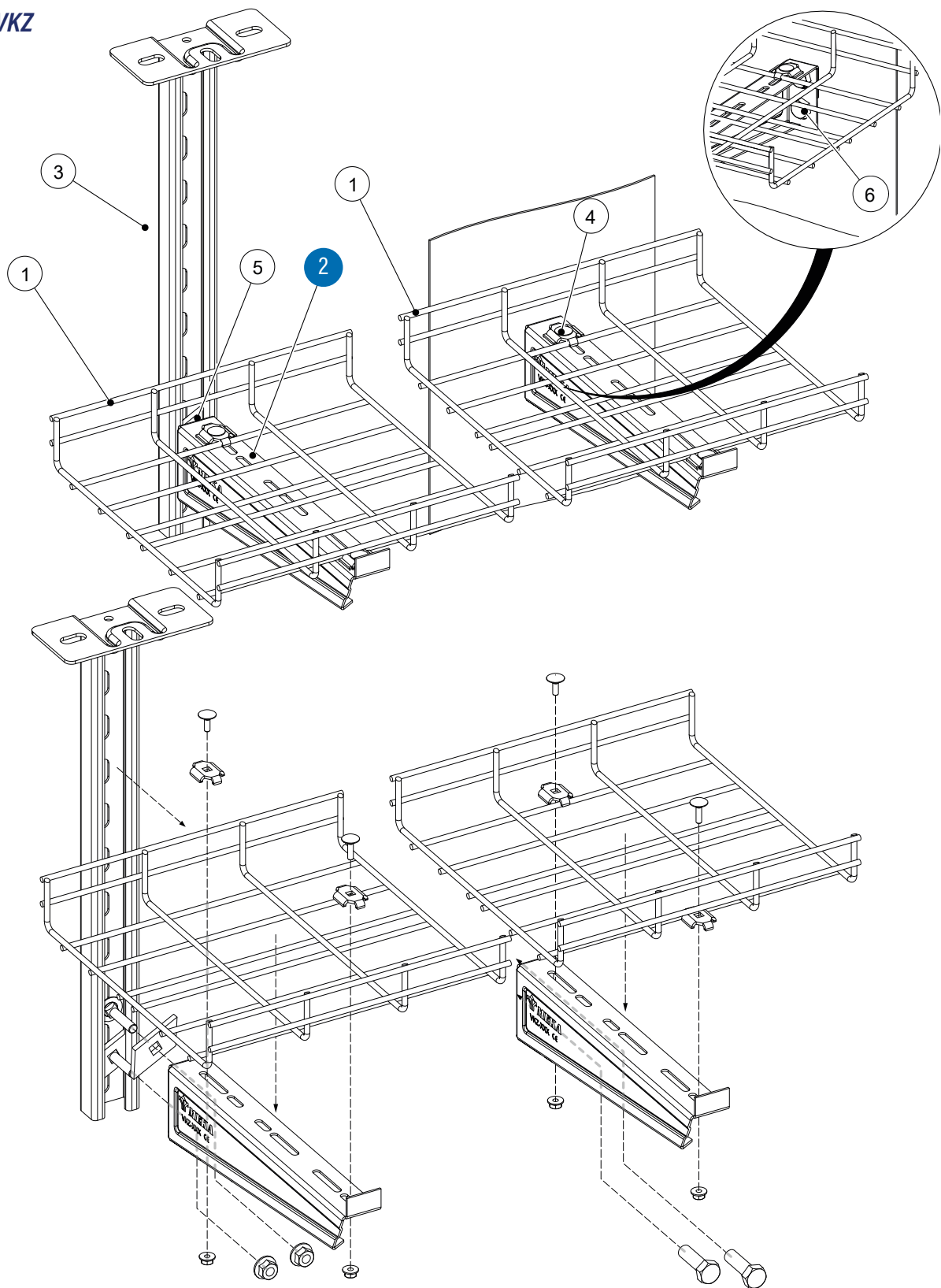


NO	PRODUCT		PCS
1	Wire mesh tray	WMT, max. width 100	1
2	Wire mesh tray	WMT, max. width 100	1
3	Wall support	MEK SK-70	1
4	Wall support	MEK SK-100	1
5	Connector set	WMT CL	2
6	Hex nut	M10	2

WIRE MESH TRAYS



SUPPORTS
WALL SUPPORT VKZ

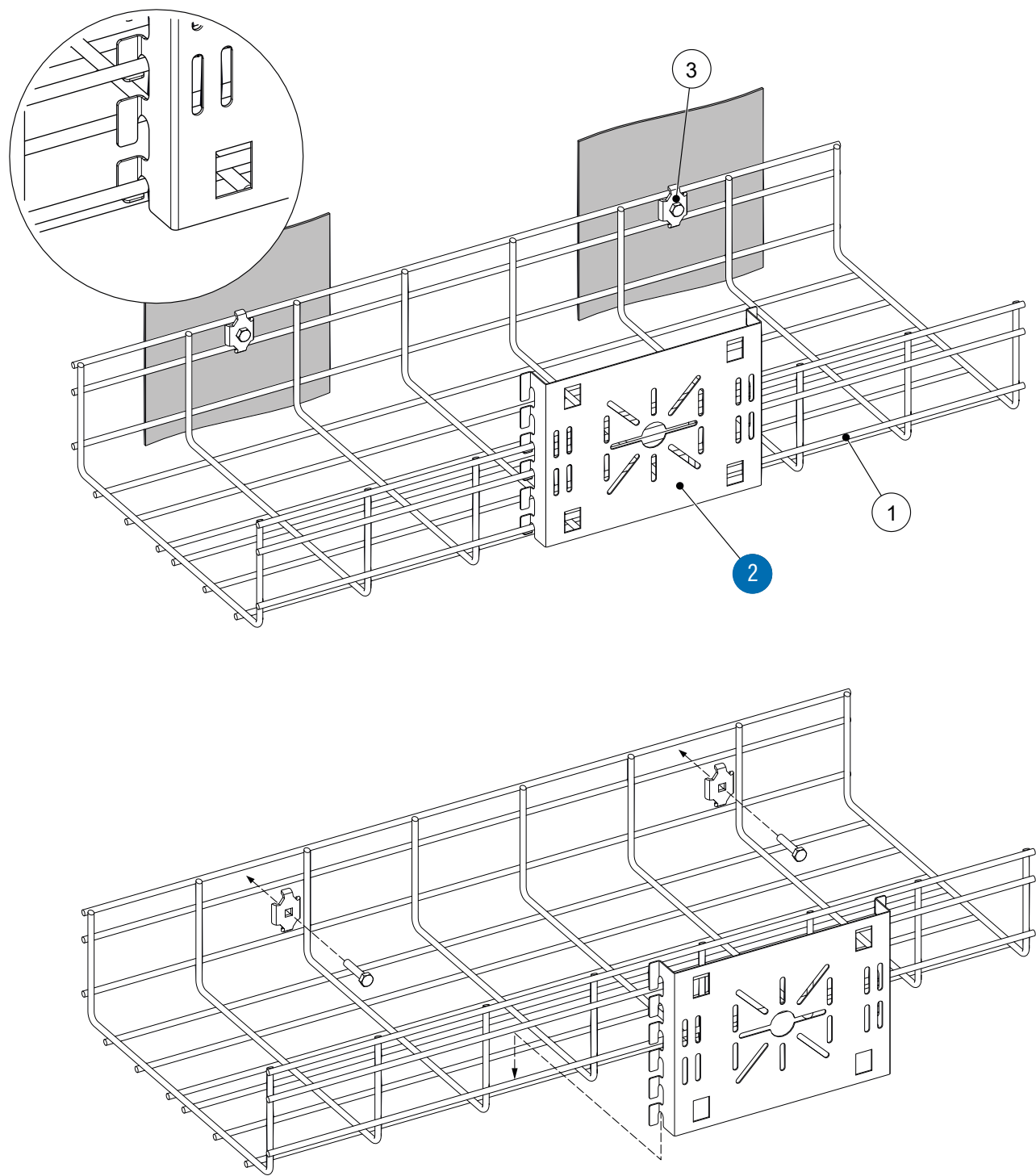


NO	PRODUCT		PCS
1	Wire mesh tray	WMT	2
2	Wall support	VKZ	2
3	Ceiling support	HK1	1
4	Connector set	WMT CL	4
5	Sliding nut	SMT	2
6	Hex screw	M10	2

WIRE MESH TRAYS



CROSS-SECTIONAL AREA INSTALLATIONS
MOUNTING PLATE IP1



NO	PRODUCT		PCS
1	Wire mesh tray	WMT	1
2	Mounting plate	WMT-IP1	1
3	Connector plate	WMT CL1	1

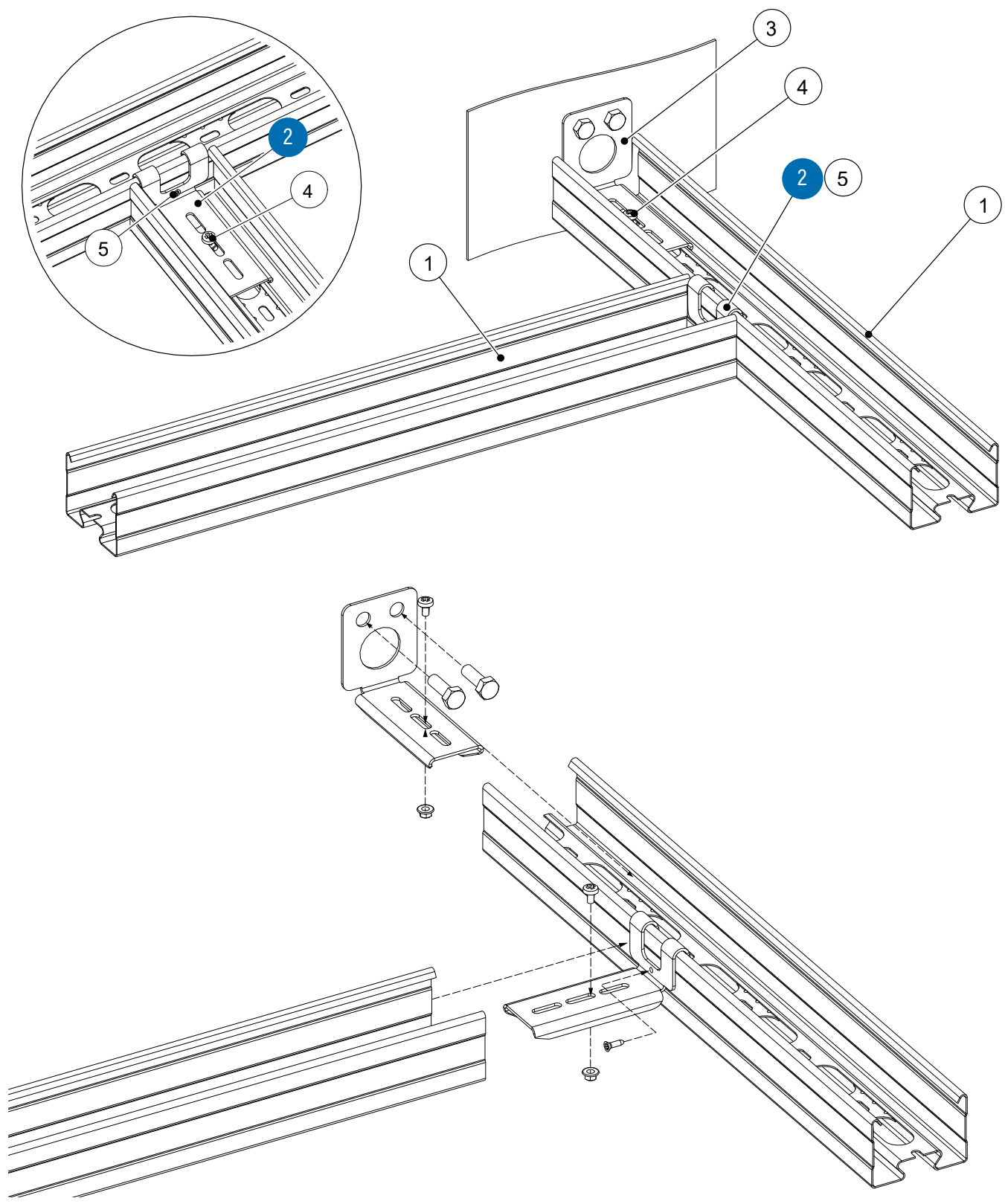
INSTALLATION INSTRUCTIONS

LIGHTING SUPPORT RAILS | EXTENSIONS | SUPPORTS | COVERING | EXTENSIONS



EXTENSIONS

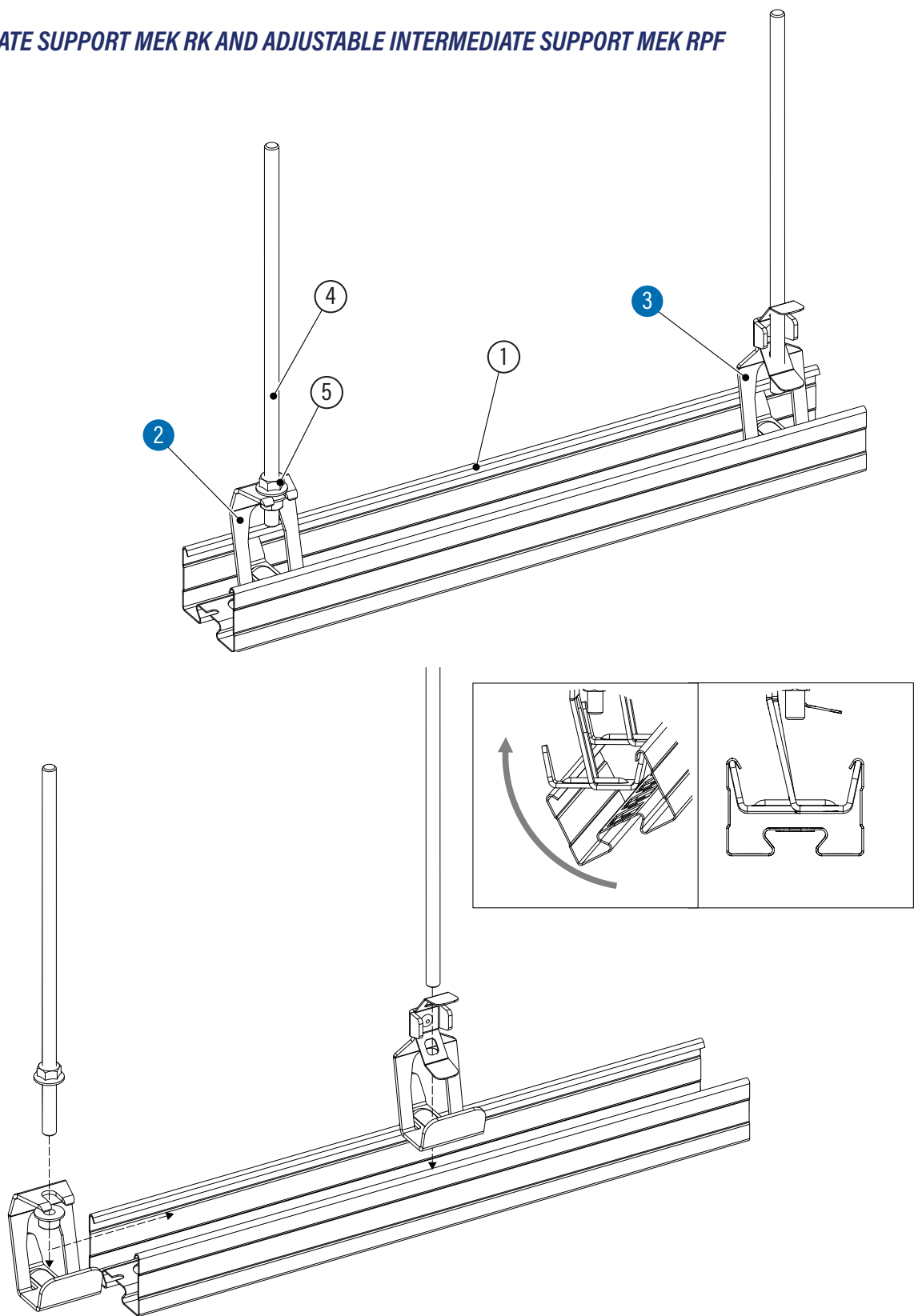
T-BRANCH BRACKET MEK-T



NO	PRODUCT		PCS
1	Lighting support rail	MEK	2
2	T-branch bracket	MEK T	1
3	End bracket	MEK-PK	1
4	Bolt set	RS MEK J 10 EG / RS TKU M	2
5	Sheet metal screw		1

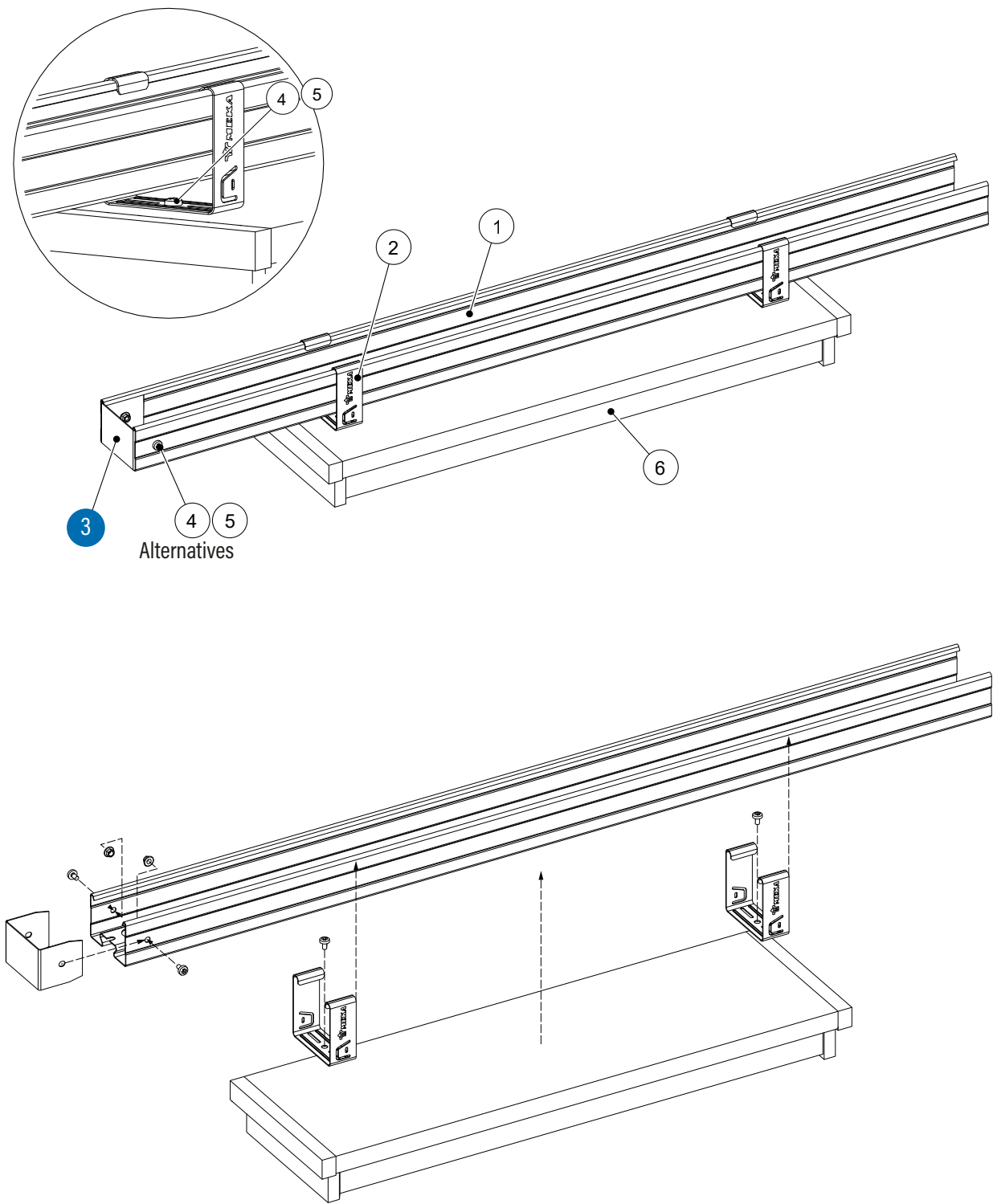
SUPPORTS

INTERMEDIATE SUPPORT MEK RK AND ADJUSTABLE INTERMEDIATE SUPPORT MEK RPF



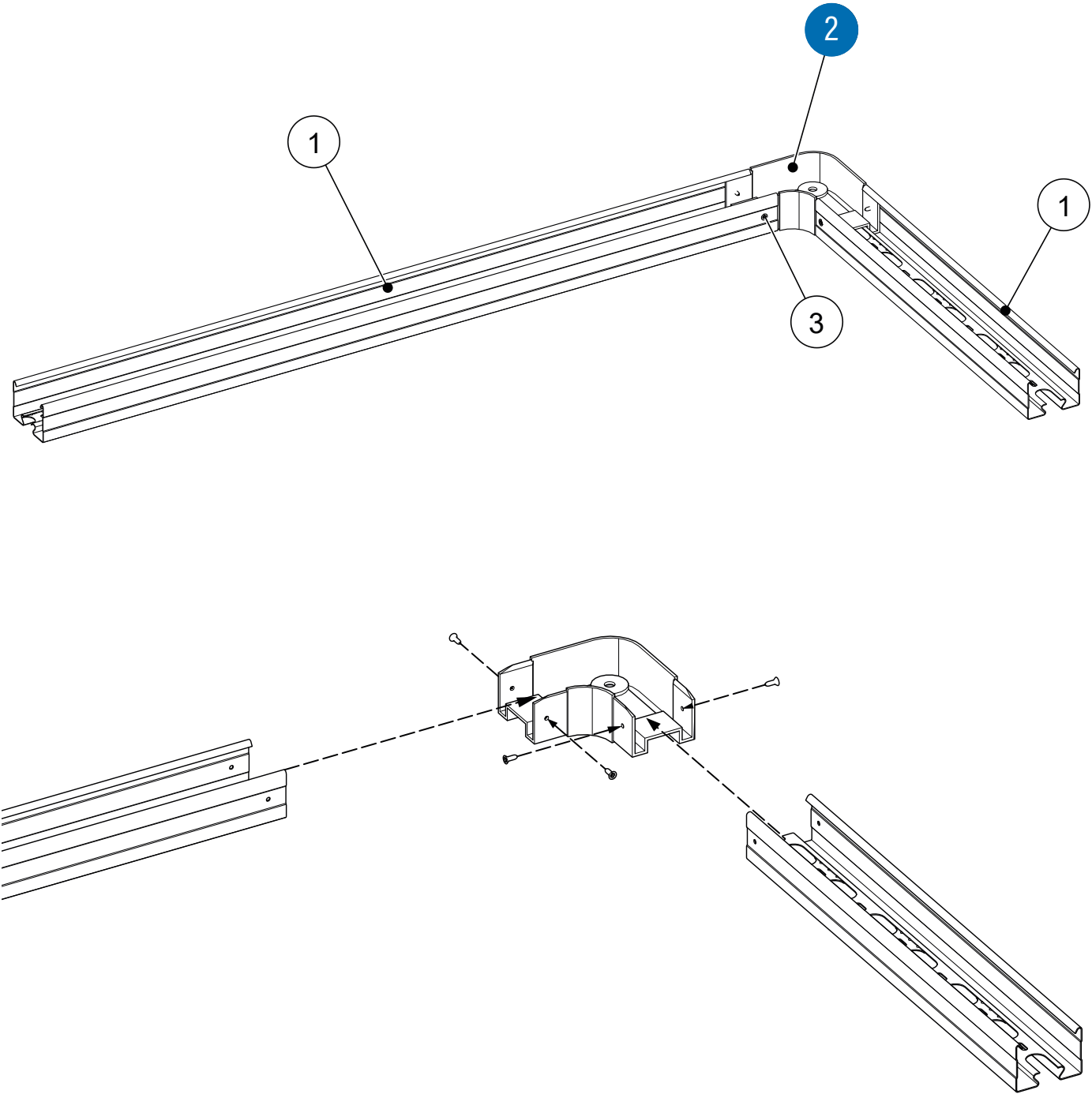
NO	PRODUCT		PCS
1	Lighting support rail MEK	MEK	1
2	Adjustable intermediate support	MEK RPF	1
3	Intermediate support	MEK RK	1
4	Threaded rod	GT-10	2
5	Nut	MU M10	2

COVERING
END PLATE MEK P



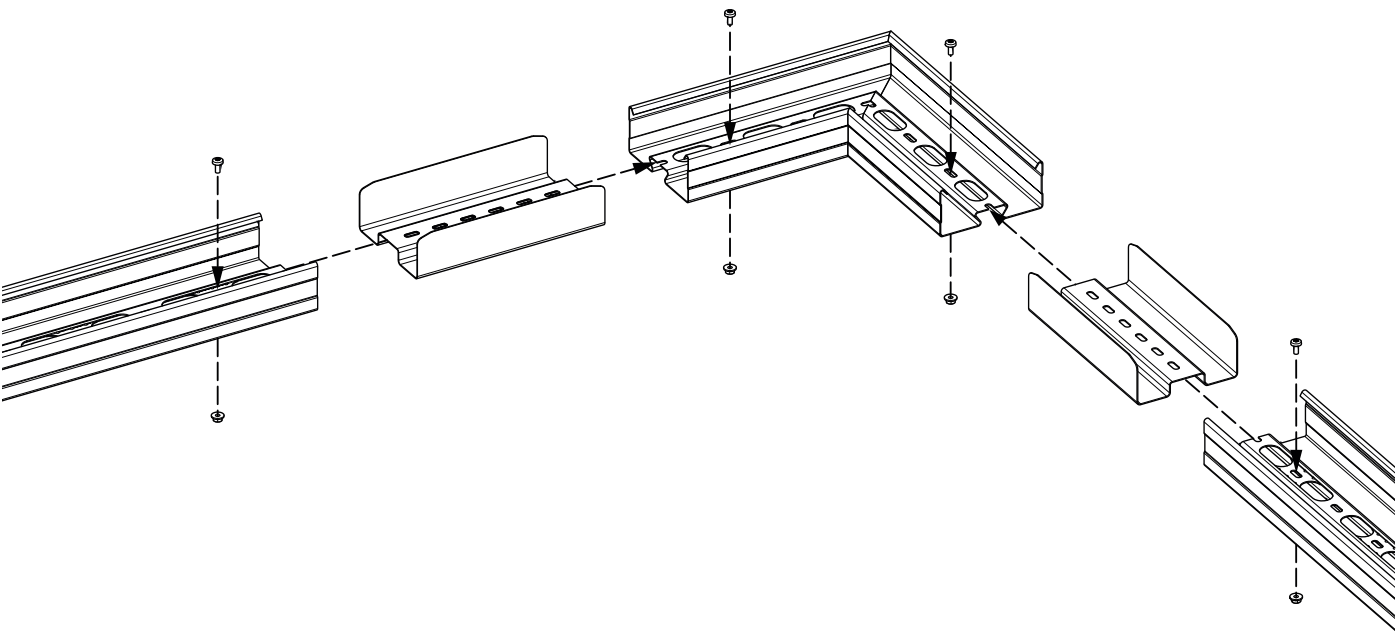
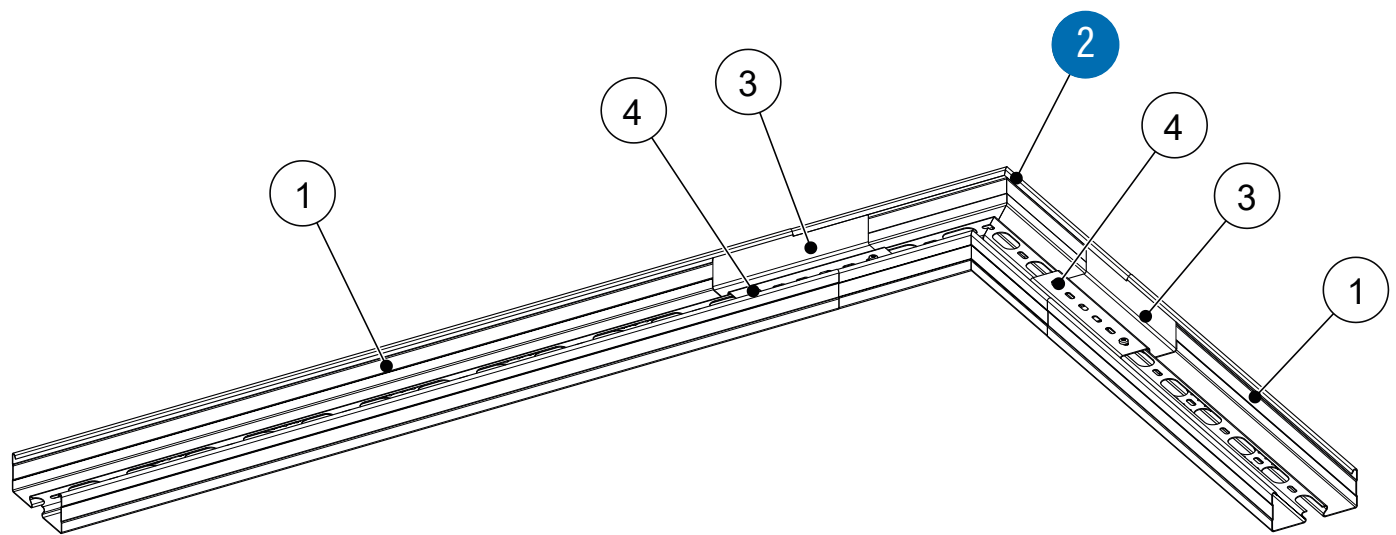
NO	PRODUCT		PCS
1	Lighting support rail	MEK	1
2	Lighting bracket	MEK AH	2
3	End plate	MEK P	1
4	Bolt set	RS MEK J 10	4
5	Bolt set	RS TKU M	4
6	Luminaire		

EXTENSIONS
CORNER PIECE MEK KR



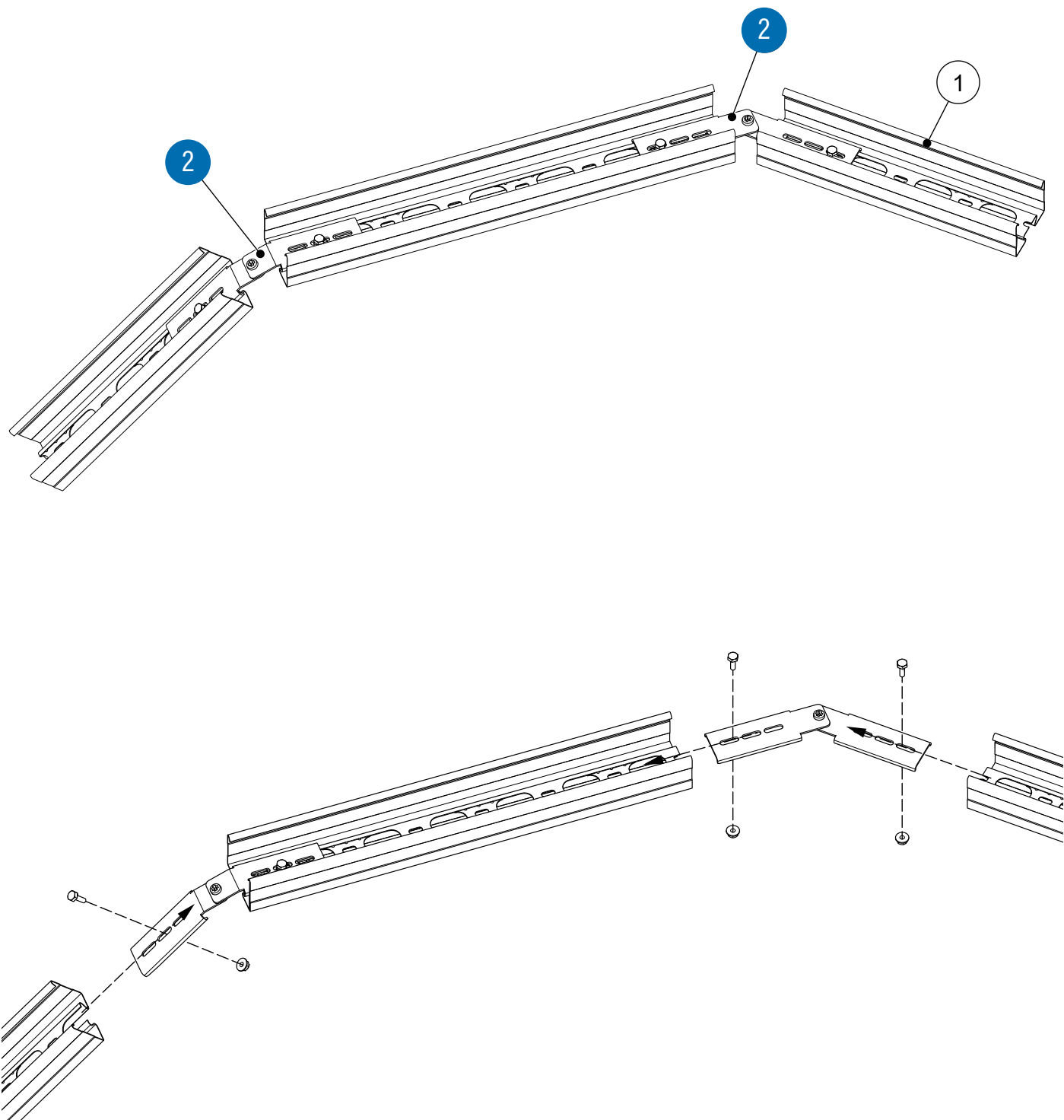
NO	PRODUCT		PCS
1	Lighting support rail	MEK	2
2	Corner piece	MEK KR	1
3	Blind scrivet or screw		4

EXTENSIONS
CORNER PIECE MEK KU



NO	PRODUCT		PCS
1	Lighting support rail	MEK	2
2	Corner piece	MEK KU	1
3	Joint	MEK J	2
4	Screw set	RS MEK J 10 EG / RS TKU M	4

EXTENSIONS
FLEXIBLE JOINT MEK NL



NO	PRODUCT		PCS
1	Lighting support rail	MEK	3
2	Flexible joint	MEK NL	2







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