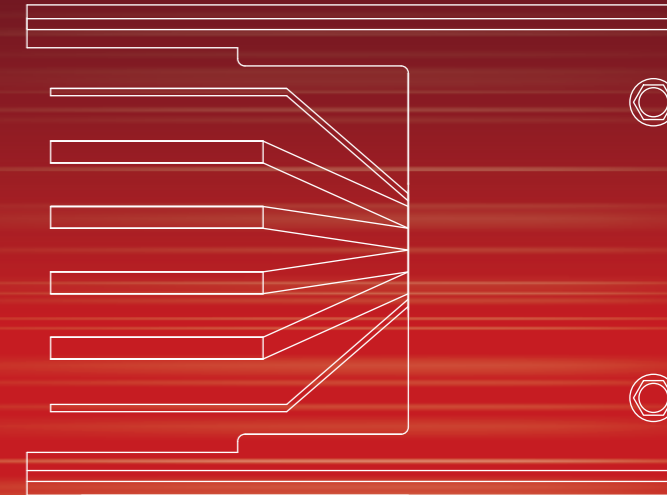
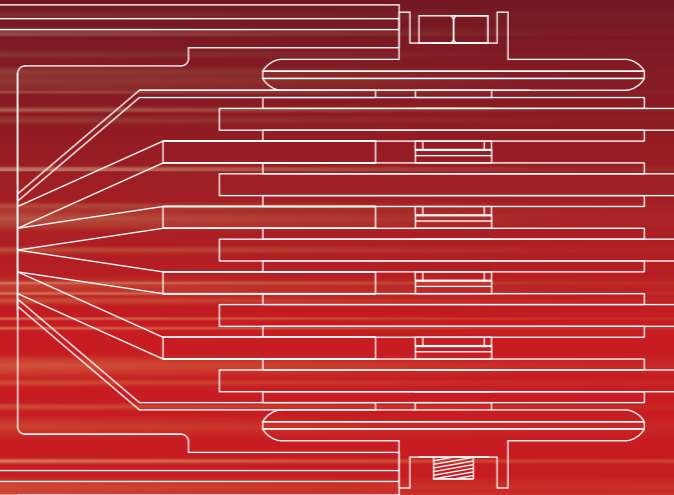


**Your Idea System!**

**BUSBAR TRUNKING SYSTEM  
BUSWAY  
630A ÷ 6300A**



***POWERFLOW* Series**

**COMPAC ELECTRIC MAN. CO., LTD.**  
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**COMPAC ELECTRIC**

**COMPAC ELECTRIC s.r.l.**  
Via Ambaraga 40,  
25133 Brescia, Italy  
Tel. +39 345 003 3771

**COMPAC  
ELECTRIC**

# GENERAL INFORMATION / GENERAL DATA / INDEX

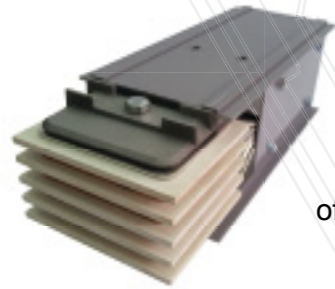
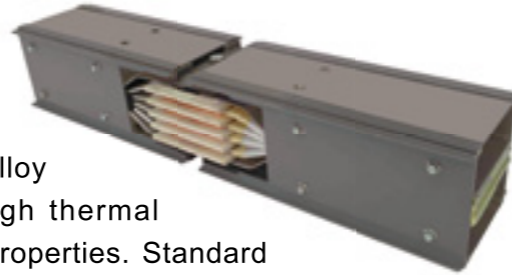
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# INTRODUCTION

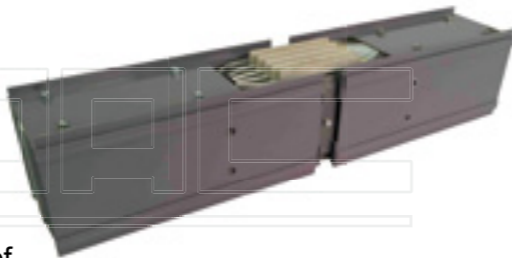
## POWERFLOW SERIES

**POWERFLOW** is one of the most advanced busbar trunking systems for the electrical distribution system in the world, considering its electrical characteristics and safety measures.

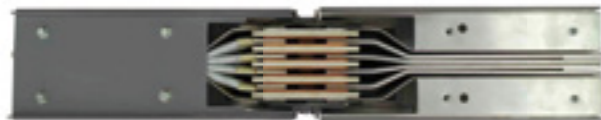
3D design, modularly structured and extruded aluminum alloy housing combination has high electrical conductivity, high thermal conductivity, magnetic field isolation and high mechanical properties. Standard product meets IP55 of the protection degree, and IP65/IP66/IP67 are optional. At the same time, IP68 can be offered upon customer's request for straight length.



**POWERFLOW** features a new generation of aluminum alloy composite material which is better than the traditional aluminum alloy in mechanical strength, heat dissipation, electrical conductivity and low-frequency electromagnetic field isolation. The housing grounding can reach at least 60% of the phase. For certain models the housing grounding may reach 120%.



**POWERFLOW** features an unique patented Modular Three Compartment design(MTC DESIGN), which places conductors in the central compartment. This not only enables superb thermal diffusion, it also better protects conductors from external impact induced damages, thus realizing superior level of protection among the same class of product in the market. Compared with other metals or non-metallic housing, the new generation aluminum alloy housing features more stable electricity transmission quality, and significantly lower operation temperature rising which would result less power losses.

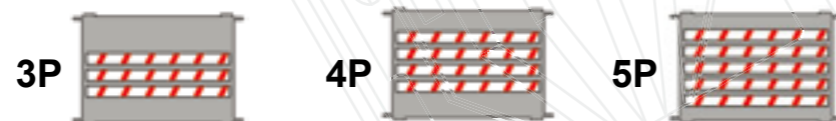


**POWERFLOW** provides RAL 7037 for standard painted version, itself provide anti-acid-base and anti-corrosion features. We can provide special stainless steel protective cover to prevent corrosive liquids for special application.



10 YEAR ANTI-CORROSION WARRANTY

**POWERFLOW** provides The Most Wide Range From 630A To 6300A both in Aluminum and Copper Conductor for all electric System:



- 3P + PE (3 Conductors)
- 3P + N + PE (4 Conductors)
- 3P + N + 50% INTERNAL GROUNDING BUS + PE (5 Conductors)
- 3P + N + 100% INTERNAL GROUNDING BUS + PE (5 Conductors)

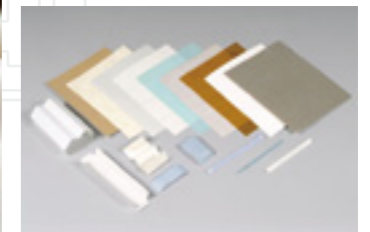
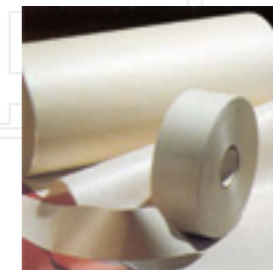
# INTRODUCTION

## POWERFLOW SERIES

**POWERFLOW** uses copper conductor with copper content 99.9%, and conductivity greater than 100% IACS. In addition, the conductivity of a new generation of aluminum conductor is 5% higher than the traditional aluminum conductor. It has better thermal conductivity and lower resistance concerning the voltage drop in full load and long distances extreme conditions. Entire length of the conductor can be tin or silver plated upon customer's request.

**POWERFLOW** uses Class F insulation material (155 ° C). Dielectric Strength: 50kV/mm & Tensile strength: 450N/cm for 0.52mm thick. This technology makes the product enjoy excellent performance in heat resistance, heat aging resistance and chemical resistance. It even increase its advantage over the same level of product in electrical specifications.

**POWERFLOW** uses high safety plug-in switch box, it uses few check points very easy to install. All check points would ensure plug-in switch box in the position of outlet of busbar. The track-style import / out of the plug-in switch box can be operated at system energized, and completely avoid electric shock risk on the operation. Even if the switch box itself has a high degree of operational safety, we are strongly recommended that it be operated and installed by the authorized professional engineer or disconnected power of the system .



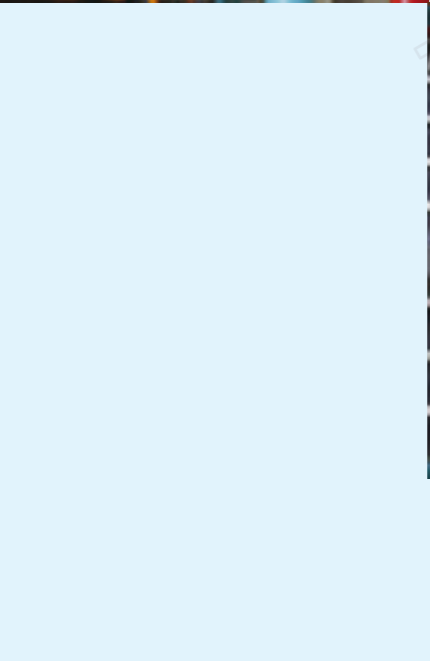
Please kindly contact our local authorized agent or contact us directly shall you have any relevant questions, inquiry or engineering application.

## Your Idea System!

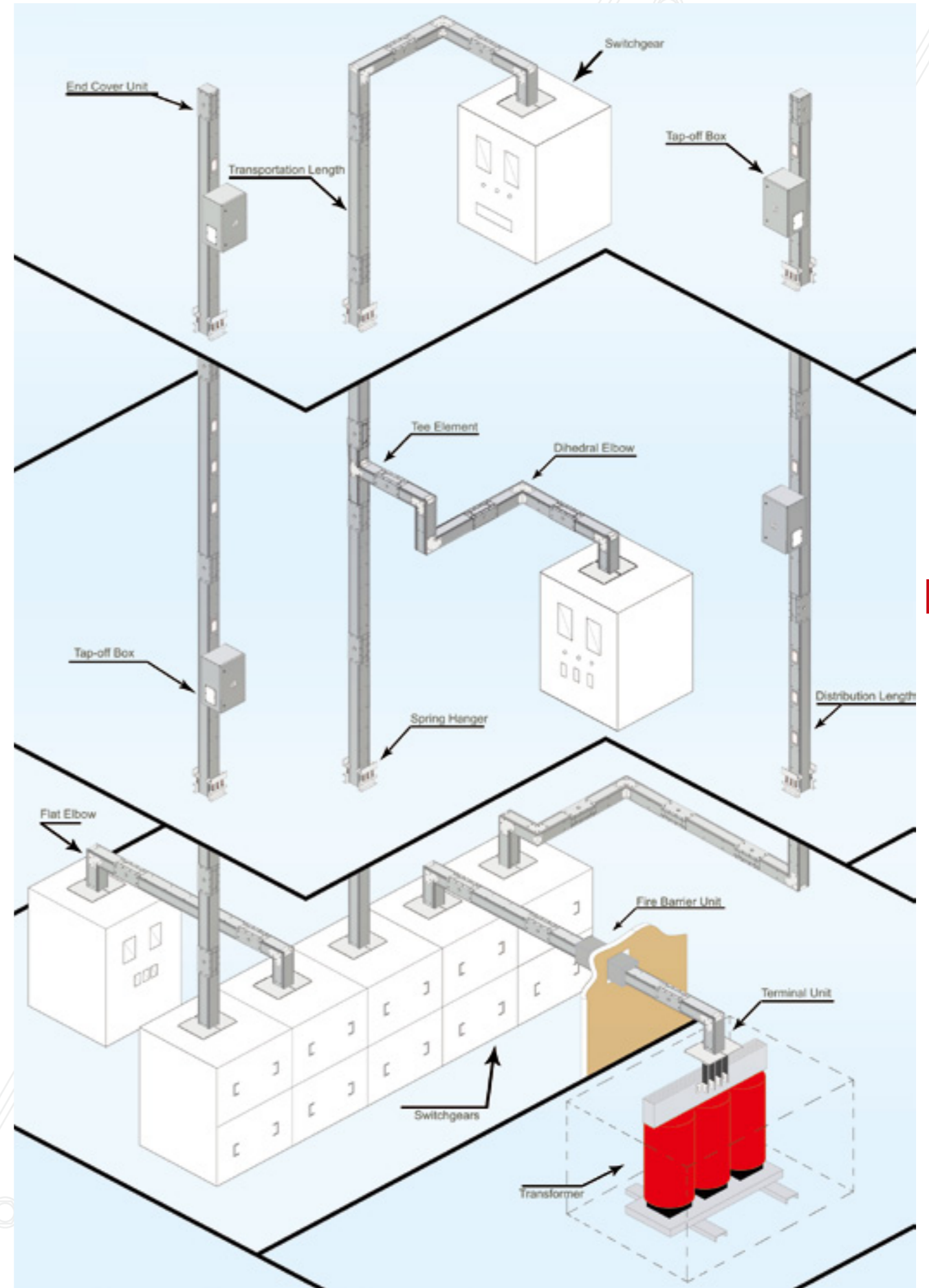
### OUR GREEN POLICY

100% of the materials we use for **POWERFLOW** SERIES are Recyclable and Reusable. For achievement of our Green Policy we are also minimize electricity and fuels consumption during production and transportation. All Material Meet RoHs Standard.



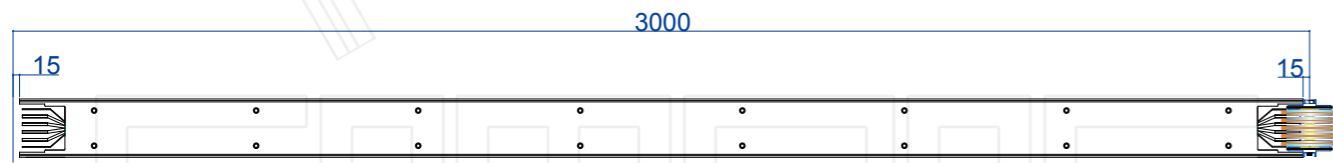
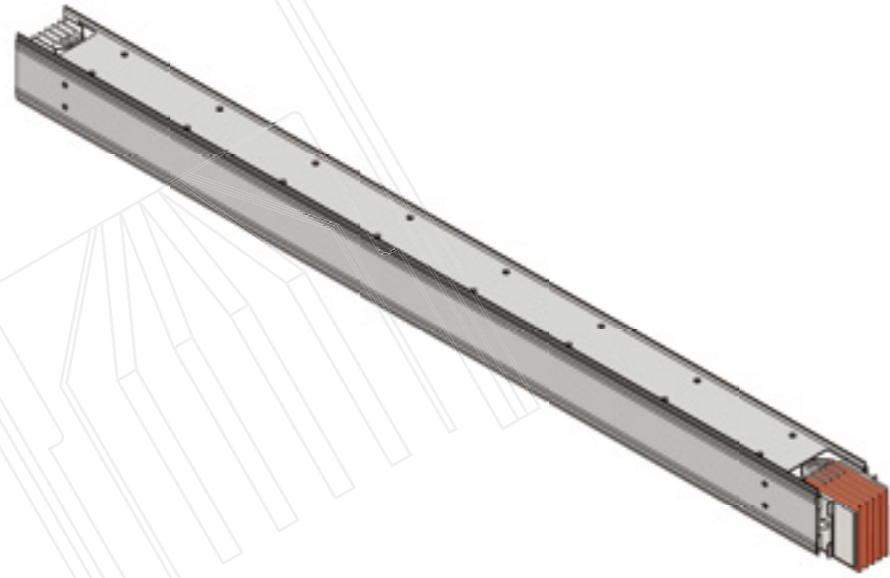


## APPLICATION DIAGRAM

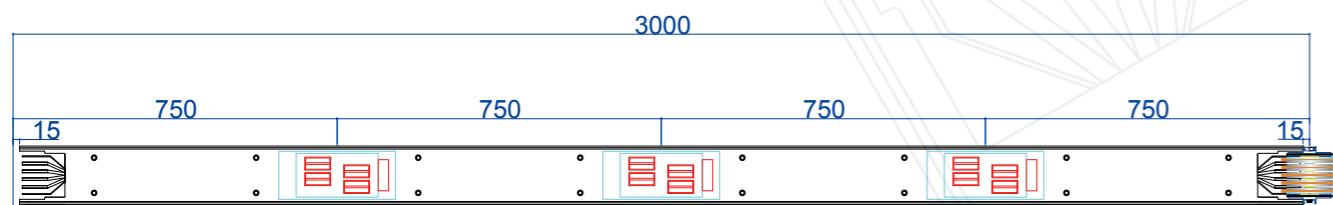
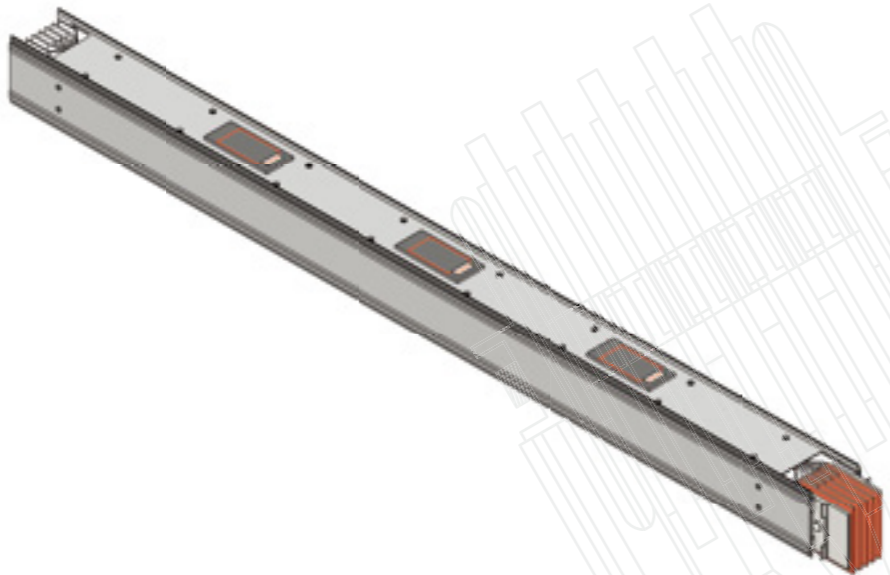


# COMPOSITION AND ACCESSORIES

## ( 1 ) TRANSPORTATION LENGTH ( FEEDER )

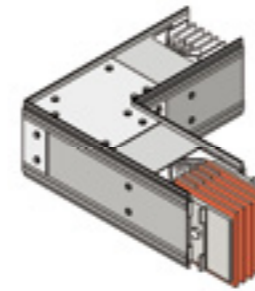


## DISTRIBUTION LENGTH ( PLUG-IN LENGTH )



# COMPOSITION AND ACCESSORIES

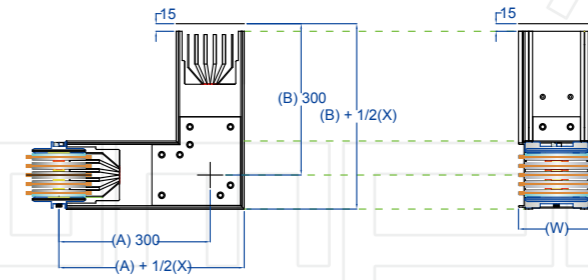
## ( 2 ) DIHEDRAL ELBOW ( EDGEWISE ELBOW )



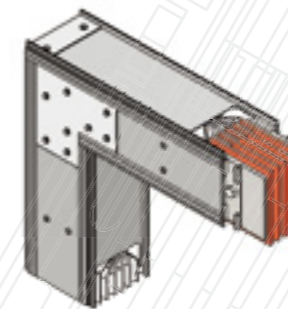
(X)	3P mm	4P mm	5P mm
	129	135	153

	(A) mm	(B) mm
630 - 5000A AL	std 300	300
800 - 6300A CU	min 300	300
	max 849	849

(W)	Al mm	Cu mm
630A	91	---
800A	91	91
1000A	121	91
1250A	151	106
1600A	221	151
2000A	221	186
2500A	271	221
3200A	418	271
4000A	418	348
5000A	518	418
6300A	---	518



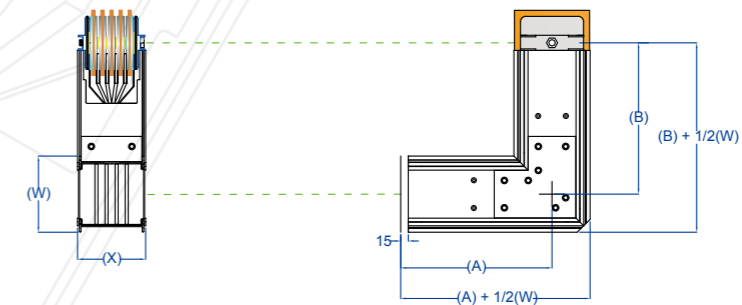
## FLAT ELBOW ( FLATWISE ELBOW )



(X)	3P mm	4P mm	5P mm
	129	135	153

	(A) mm	(B) mm
630 - 2000A AL	std 300	300
800 - 2500A CU	min 300	300
	max 899	899
2500 - 4000A AL	std 450	450
3200 - 5000A CU	min 450	450
	max 1049	1049
5000A AL	std 600	600
6300A CU	min 600	600
	max 1049	1049

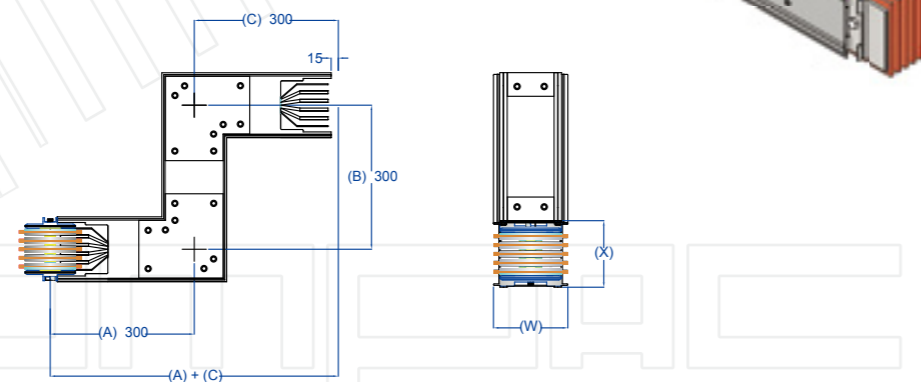
(W)	Al mm	Cu mm
630A	91	---
800A	91	91
1000A	121	91
1250A	151	106
1600A	221	151
2000A	221	186
2500A	271	221
3200A	418	271
4000A	418	348
5000A	518	418
6300A	---	518



# COMPOSITION AND ACCESSORIES

## (3) DOUBLE DIHEDRAL ELBOW

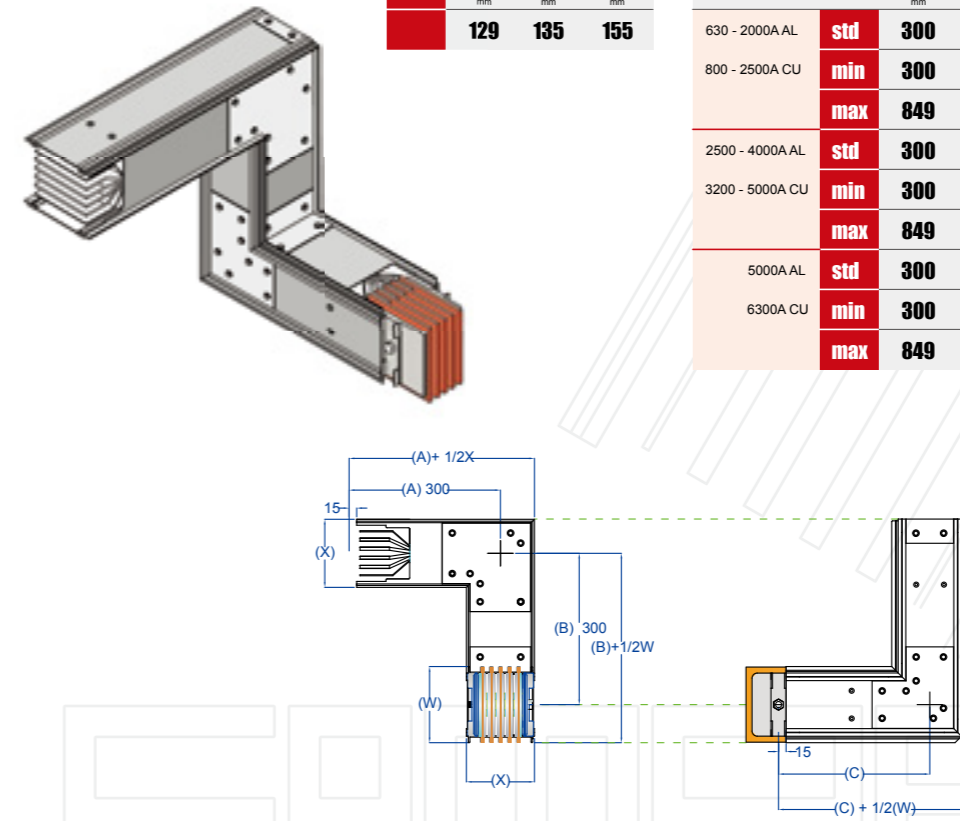
(W)	Al	Cu	(A)	(B)	(C)	(X)	3P	4P	5P
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
630A	91	---	std	300	300	300	129	135	153
800A	91	91	min	300	50	300			
1000A	121	91	max	849	499	849			
1250A	151	106							
1600A	221	151							
2000A	221	186							
2500A	271	221							
3200A	418	271							
4000A	418	348							
5000A	518	418							
6300A	---	518							



# COMPOSITION AND ACCESSORIES

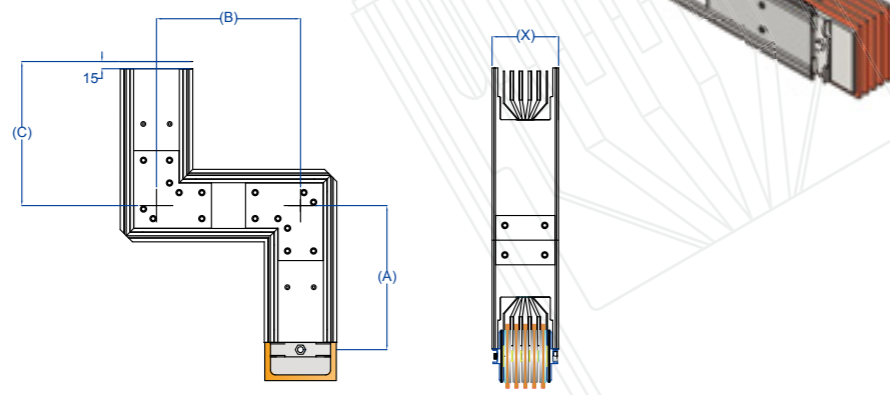
## (4) FLAT + DIHEDRAL ELBOW

(X)	3P	4P	5P	(A)	(B)	(C)	(W)	Al	Cu	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
	129	135	155	std	300	300	300	630A	91	---
				min	300	210	300	800A	91	91
				max	849	549	899	1000A	121	91
				std	300	450	450	1250A	151	106
				min	300	450	450	1600A	221	151
				max	849	699	1049	2000A	221	186
				std	300	600	600	2500A	271	221
				min	300	450	600	3200A	418	271
				max	849	649	1049	4000A	418	348
								5000A	518	418
								6300A	---	518



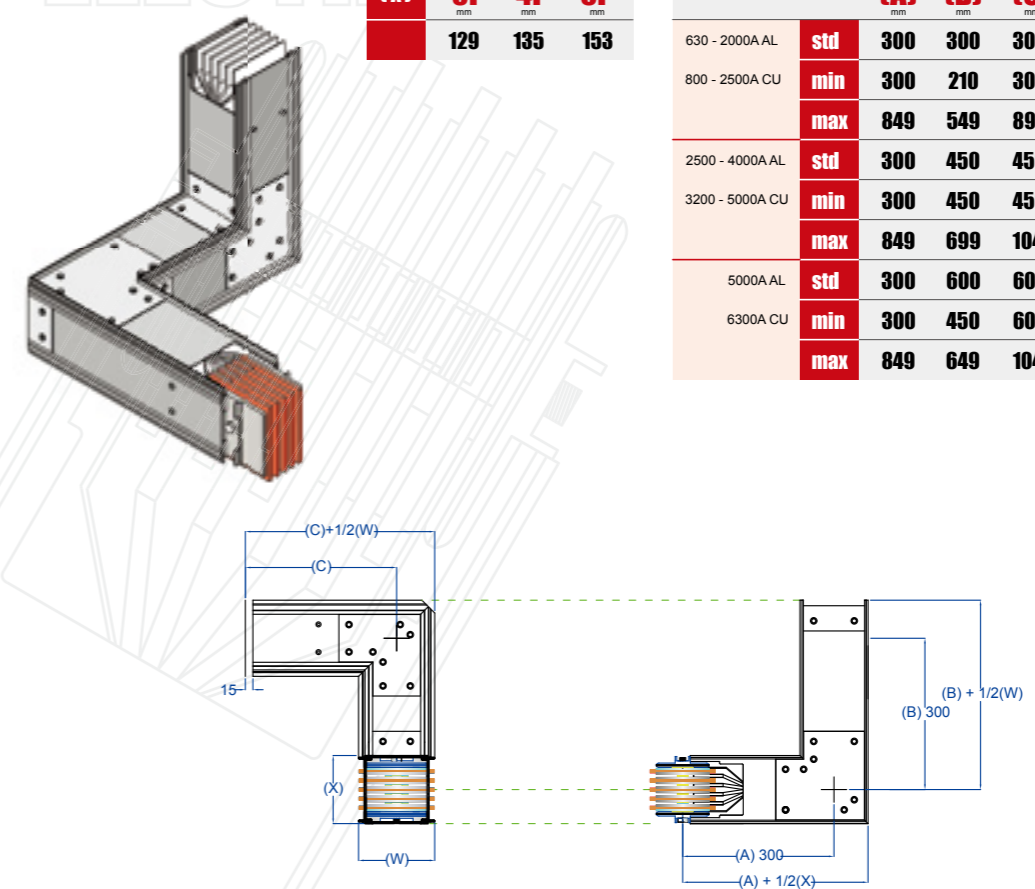
## DOUBLE FLAT ELBOW

(W)	Al	Cu	(A)	(B)	(C)	(X)	3P	4P	5P
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
630A	91	---	std	300	300	300	129	135	153
800A	91	91	min	300	50	300			
1000A	121	91	max	899	599	899			
1250A	151	106	std	450	450	450			
1600A	221	151	min	450	50	450			
2000A	221	186	max	1049	849	1049			
2500A	271	221	std	600	600	600			
3200A	418	271	min	600	200	600			
4000A	418	348	max	1049	849	1049			
5000A	518	418							
6300A	---	518							



## DIHEDRAL + FLAT ELBOW

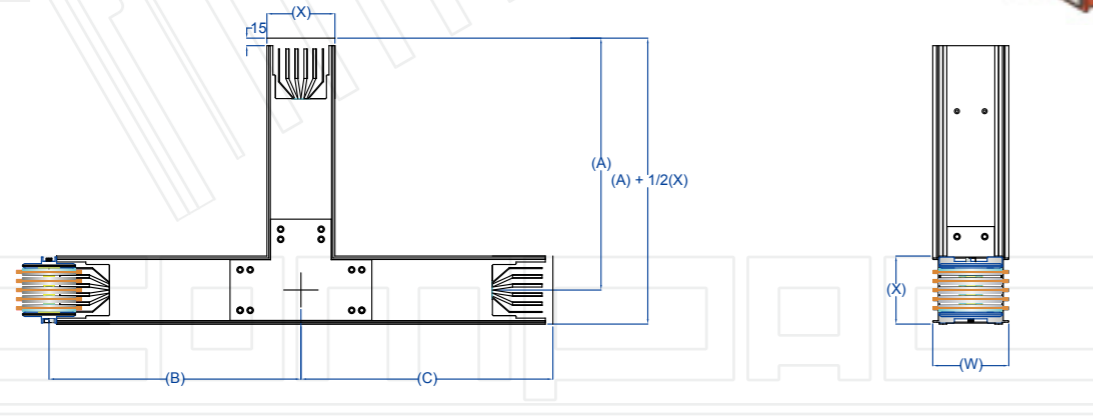
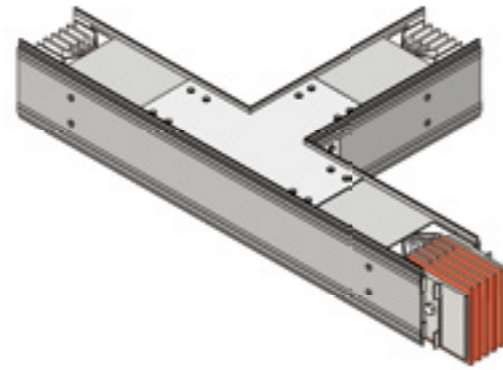
(X)	3P	4P	5P	(A)	(B)	(C)	(W)	Al	Cu	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
	129	135	153	std	300	300	300	630A	91	---
				min	300	210	300	800A	91	91
				max	849	549	899	1000A	121	91
				std	300	450	450	1250A	151	106
				min	300	450	450	1600A	221	151
				max	849	699	1049	2000A	221	186
				std	300	600	600	2500A	271	221
				min	300	450	600	3200A	418	271
				max	849	649	1049	4000A	418	348
								5000A	518	418
								6300A	---	518



# COMPOSITION AND ACCESSORIES

## ( 5 ) DIHEDRAL TEE

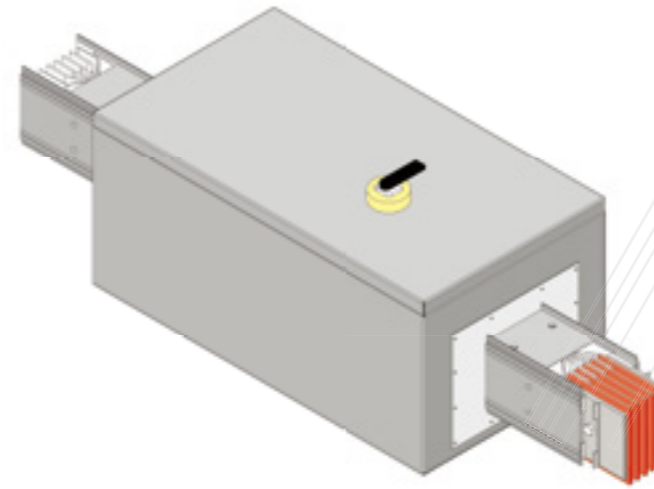
( W )	Al	Cu		( A )	( B )	( C )	( X )	3P	4P	5P
mm	mm	mm		mm	mm	mm	mm	mm	mm	mm
630A	91	---	630 - 5000A AL	std	600	600	600	129	135	153
800A	91	91	800 - 6300A CU	min	600	600	600			
1000A	121	91		max	849	849	849			
1250A	151	106								
1600A	221	151								
2000A	221	186								
2500A	271	221								
3200A	418	271								
4000A	418	348								
5000A	518	418								
6300A	---	518								



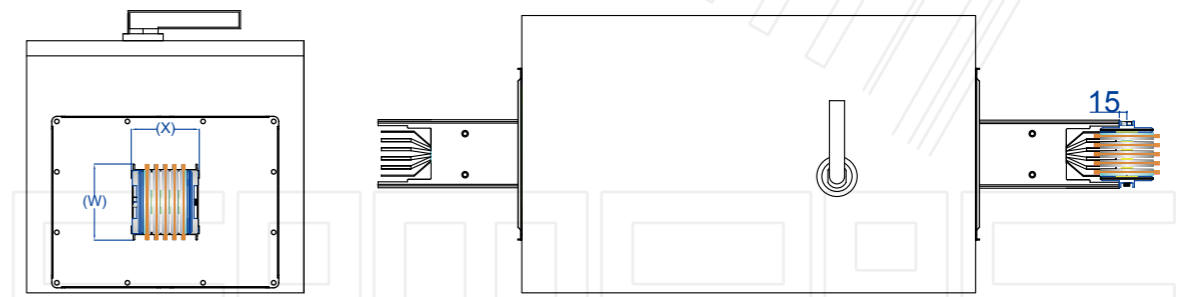
# COMPOSITION AND ACCESSORIES

## ( 6 ) SECTION ISOLATOR UNIT

( X )	3P	4P	5P	( W )	Al	Cu
mm	mm	mm	mm	mm	mm	mm
129	135	155		630A	91	---
				800A	91	91
				1000A	121	91
				1250A	151	106
				1600A	221	151
				2000A	221	186
				2500A	271	221
				3200A	418	271
				4000A	418	348
				5000A	518	418
				6300A	---	518

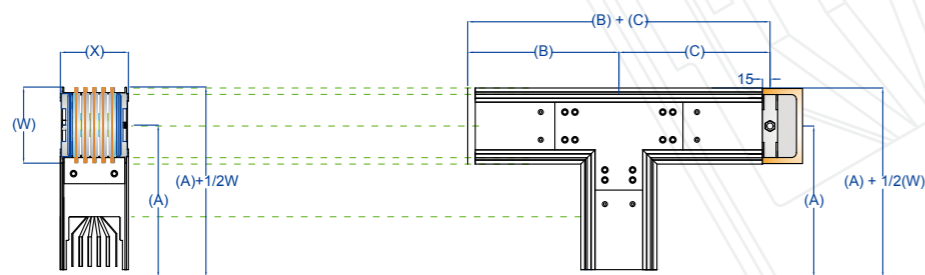
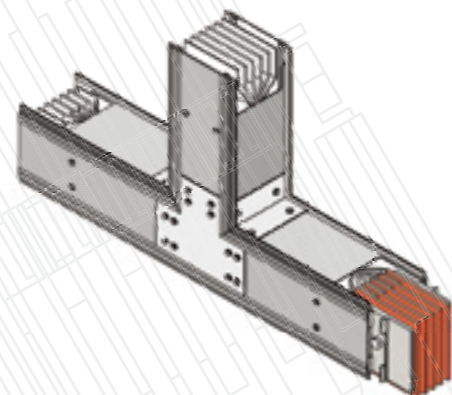


for dimensions, please contact our technical department .



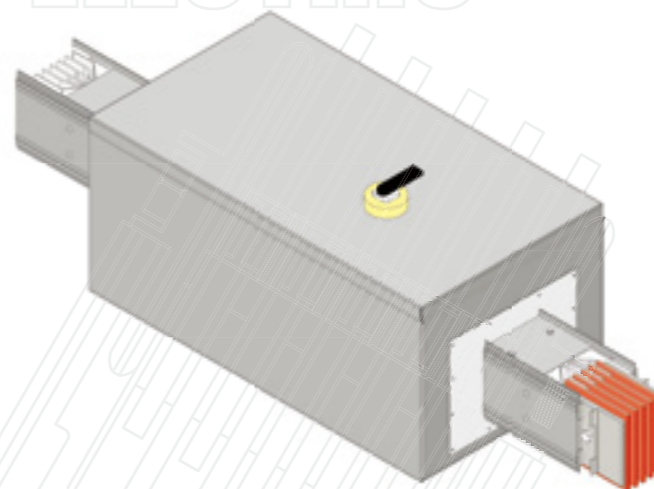
## FLAT TEE

( W )	Al	Cu		( A )	( B )	( C )	( X )	3P	4P	5P
mm	mm	mm		mm	mm	mm	mm	mm	mm	mm
630A	91	---	630 - 2000A AL	300	300	300	129	135	153	
800A	91	91	800 - 2500A CU							
1000A	121	91	2500 - 5000A AL	600	600	600				
1250A	151	106	3200 - 6300A CU							
1600A	221	151								
2000A	221	186								
2500A	271	221								
3200A	418	271								
4000A	418	348								
5000A	518	418								
6300A	---	518								

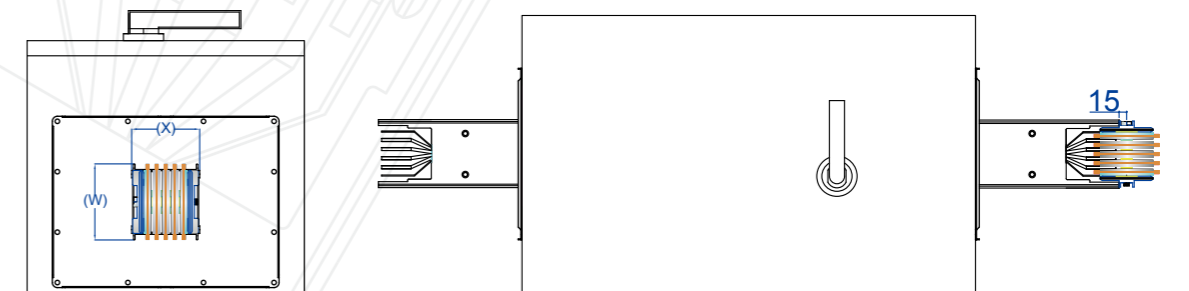


## ( 7-1 ) RATING REDUCER UNIT ( REDUCER )

( X )	3P	4P	5P	( W )	Al	Cu
mm	mm	mm	mm	mm	mm	mm
129	135	153		630A	91	---
				800A	91	91
				1000A	121	91
				1250A	151	106
				1600A	221	151
				2000A	221	186
				2500A	271	221
				3200A	418	271
				4000A	418	348
				5000A	518	418
				6300A	---	518



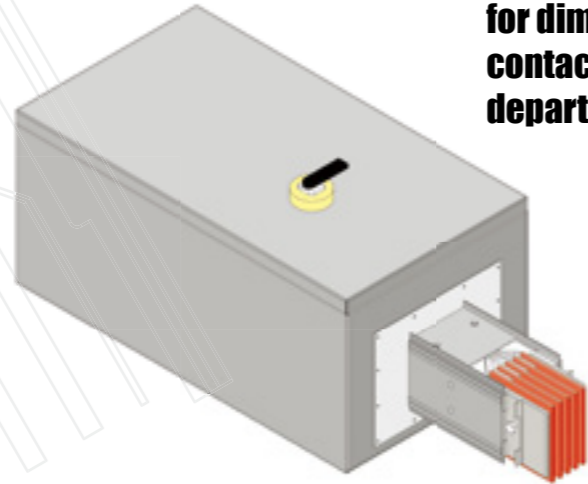
for dimensions, please contact our technical department .



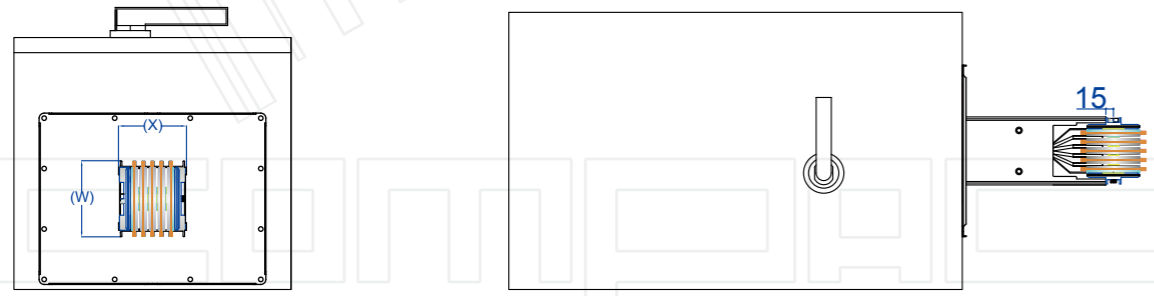
# COMPOSITION AND ACCESSORIES

## (7-2) END FEEDER UNIT + SWITCH ( WITH OR WITHOUT FUSES ) / CIRCUIT BREAKER

(W)	Al	Cu	(X)	3P	4P	5P
mm	mm	mm	mm	mm	mm	mm
630A	91	---	129	135	153	
800A	91	91				
1000A	121	91				
1250A	151	106				
1600A	221	151				
2000A	221	186				
2500A	271	221				
3200A	418	271				
4000A	418	348				
5000A	518	418				
6300A	---	518				

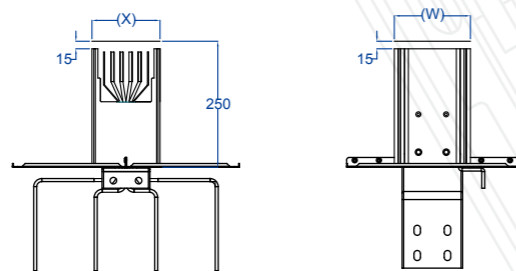
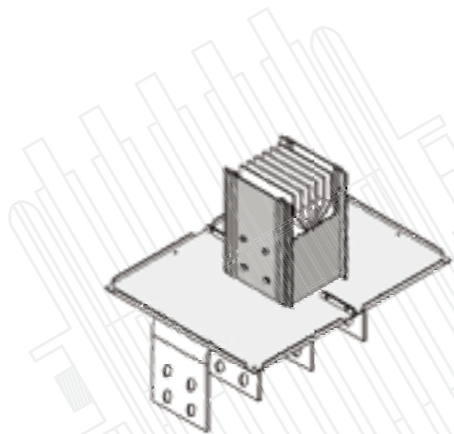


for dimensions, please contact our technical department.



## (8) TERMINAL UNIT ( FLANGE END )

(W)	Al	Cu	(X)	3P	4P	5P
mm	mm	mm	mm	mm	mm	mm
630A	91	---	129	135	153	
800A	91	91				
1000A	121	91				
1250A	151	106				
1600A	221	151				
2000A	221	186				
2500A	271	221				
3200A	418	271				
4000A	418	348				
5000A	518	418				
6300A	---	518				



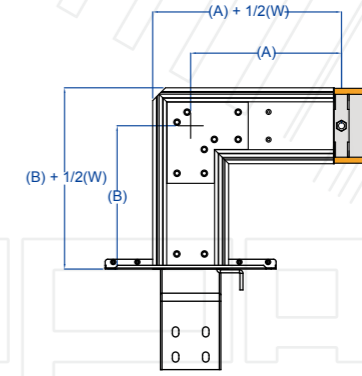
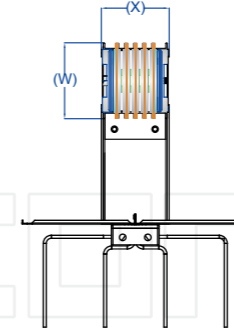
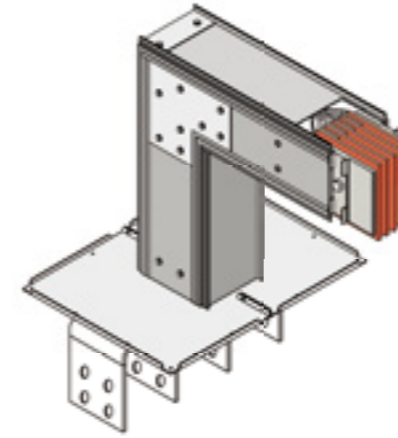
# COMPOSITION AND ACCESSORIES

## (9) FLAT ELBOW + TERMINAL UNIT

(X)	3P	4P	5P
mm	mm	mm	mm
129	135	153	

	(A)	(B)
mm	mm	mm
630 - 2000A AL	std 300	300
800 - 2500A CU	min 300	200
	max 849	549
2500 - 4000A AL	std 450	450
3200 - 5000A CU	min 450	300
	max 1049	699
5000A AL	std 600	600
6300A CU	min 600	600
	max 1049	1049

(W)	Al	Cu
mm	mm	mm
630A	91	---
800A	91	91
1000A	121	91
1250A	151	106
1600A	221	151
2000A	221	186
2500A	271	221
3200A	418	271
4000A	418	348
5000A	518	418
6300A	---	518

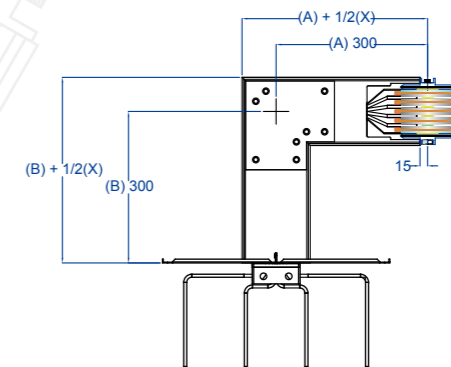
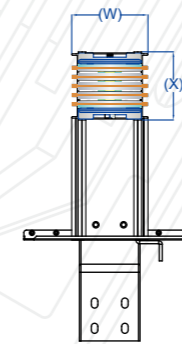
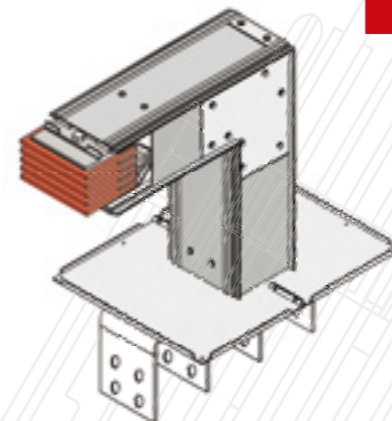


## (10) DIHEDRAL ELBOW + TERMINAL UNIT

(X)	3P	4P	5P
mm	mm	mm	mm
129	135	153	

	(A)	(B)
mm	mm	mm
630 - 5000A AL	std 300	300
800 - 6300A CU	min 300	150
	max 899	549

(W)	Al	Cu
mm	mm	mm
630A	91	---
800A	91	91
1000A	121	91
1250A	151	106
1600A	221	151
2000A	221	186
2500A	271	221
3200A	418	271
4000A	418	348
5000A	518	418
6300A	---	518





# COMPOSITION AND ACCESSORIES

## ( 11 ) DOUBLE FLAT ELBOW + TERMINAL UNIT

(W)	Al	Cu		(A)	(B)	(C)	(X)	3P	4P	5P
mm	mm	mm		mm	mm	mm	mm	mm	mm	mm
630A	91	---	630 - 2000A AL	std	300	300	300	129	135	153
800A	91	91	800 - 2500A CU	min	300	50	200			
1000A	121	91		max	899	599	549			
1250A	151	106	2500 - 4000A AL	std	450	450	450			
1600A	221	151	3200 - 5000A CU	min	450	50	300			
2000A	221	186		max	1049	899	699			
2500A	271	221	5000A AL	std	600	600	600			
3200A	418	271	6300A CU	min	600	200	450			
4000A	418	348		max	1049	899	699			
5000A	518	418								
6300A	---	518								

# COMPOSITION AND ACCESSORIES

## ( 13 ) FLAT ELBOW + DIHEDRAL ELBOW + TERMINAL UNIT

(W)	Al	Cu		(A)	(B)	(C)	(X)	3P	4P	5P
mm	mm	mm		mm	mm	mm	mm	mm	mm	mm
630A	91	---	630 - 2000A AL	std	300	300	300	129	135	153
800A	91	91	800 - 2500A CU	min	300	220	150			
1000A	121	91		max	899	549	449			
1250A	151	106	2500 - 4000A AL	std	450	450	300			
1600A	221	151	3200 - 5000A CU	min	450	450	150			
2000A	221	186		max	1049	699	449			
2500A	271	221	5000A AL	std	600	600	300			
3200A	418	271	6300A CU	min	600	600	150			
4000A	418	348		max	1049	699	699			
5000A	518	418								
6300A	---	518								

## ( 12 ) DOUBLE DIHEDRAL ELBOW + TERMINAL UNIT

(W)	Al	Cu		(A)	(B)	(C)	(X)	3P	4P	5P
mm	mm	mm		mm	mm	mm	mm	mm	mm	mm
630A	91	---	630 - 5000A AL	std	300	300	300	129	135	153
800A	91	91	800 - 6300A CU	min	300	150	150			
1000A	121	91		max	849	499	699			
1250A	151	106								
1600A	221	151								
2000A	221	186								
2500A	271	221								
3200A	418	271								
4000A	418	348								
5000A	518	418								
6300A	---	518								

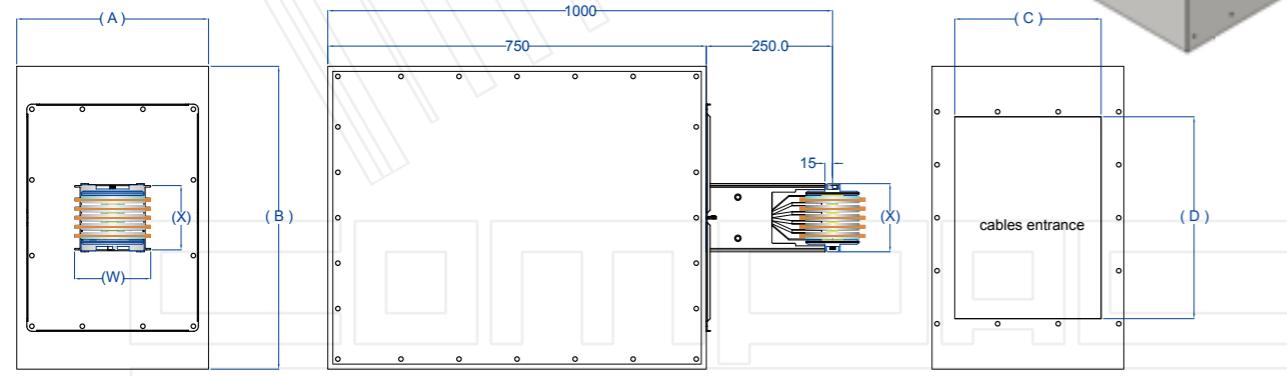
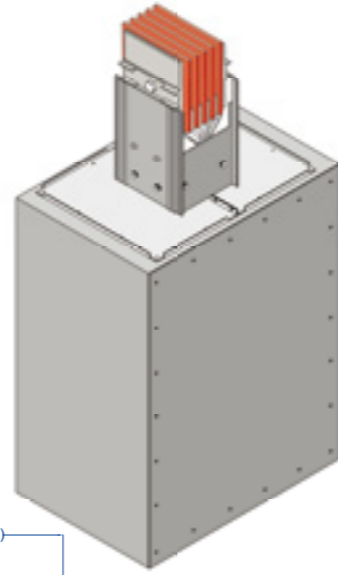
## ( 14 ) DIHEDRAL ELBOW + FLAT ELBOW + TERMINAL UNIT

(W)	Al	Cu		(A)	(B)	(C)	(X)	3P	4P	5P
mm	mm	mm		mm	mm	mm	mm	mm	mm	mm
630A	91	---	630 - 2000A AL	std	300	300	300	129	135	153
800A	91	91	800 - 2500A CU	min	300	220	200			
1000A	121	91		max	849	549	549			
1250A	151	106	2500 - 4000A AL	std	300	450	450			
1600A	221	151	3200 - 5000A CU	min	300	450	300			
2000A	221	186		max	849	699	699			
2500A	271	221	5000A AL	std	300	600	600			
3200A	418	271	6300A CU	min	300	600	450			
4000A	418	348		max	849	699	699			
5000A	518	418								
6300A	---	518								

# COMPOSITION AND ACCESSORIES

## ( 15 ) END FEEDER UNIT ( END CABLE TAP BOX )

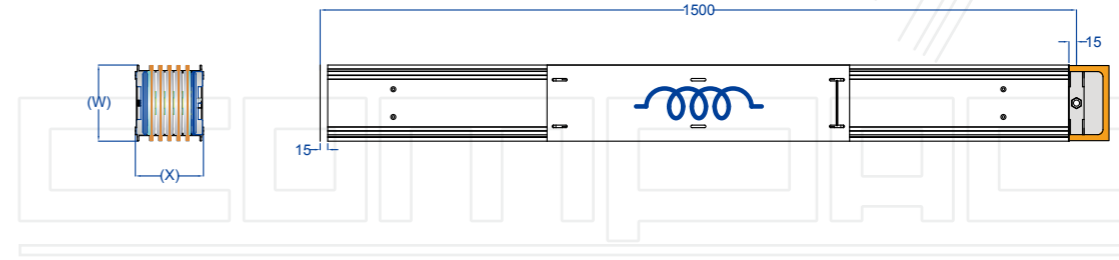
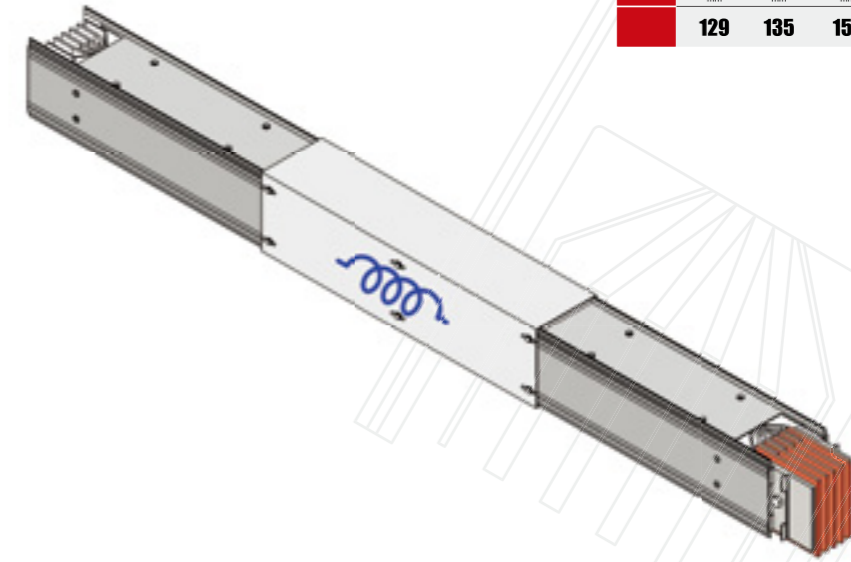
(W)	Al	Cu	(A)	(B)	(C)	(D)	(X)	3P	4P	5P			
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm			
630A	91	---	630 - 2000A AL				400	600	300	400	129	135	153
800A	91	91	800 - 2500A CU										
1000A	121	91	2500 - 4000A AL				600	600	500	400			
1250A	151	106	3200 - 5000A CU										
1600A	221	151	5000A AL				750	750	650	550			
2000A	221	186	6300A CU										
2500A	271	221											
3200A	418	271											
4000A	418	348											
5000A	518	418											
6300A	---	518											



# COMPOSITION AND ACCESSORIES

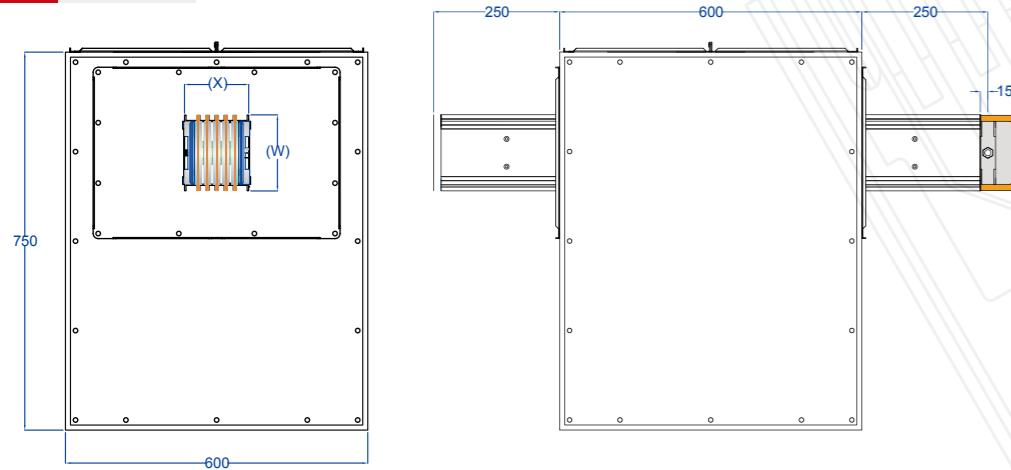
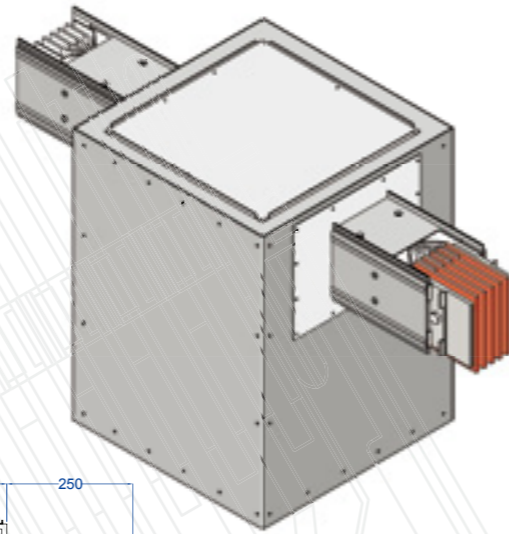
## ( 17 ) EXPANSION UNIT ( EXPANSION SECTION )

(X)	3P	4P	5P	(W)	Al	Cu
mm	mm	mm	mm	mm	mm	mm
129	135	153		630A	91	---
				800A	91	91
				1000A	121	91
				1250A	151	106
				1600A	221	151
				2000A	221	186
				2500A	271	221
				3200A	418	271
				4000A	418	348
				5000A	518	418
				6300A	---	518



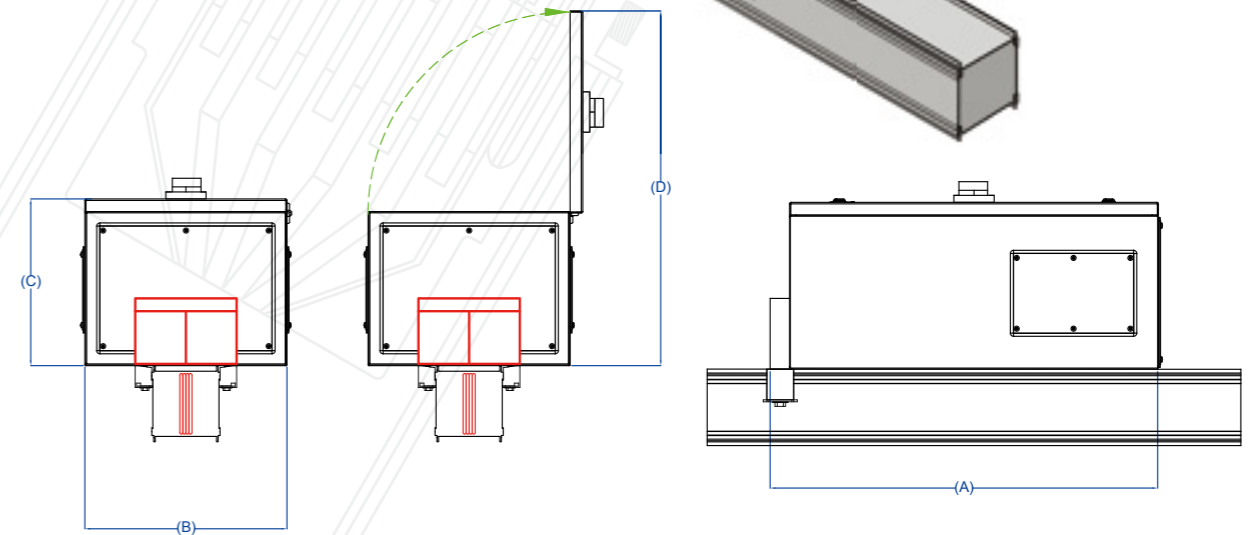
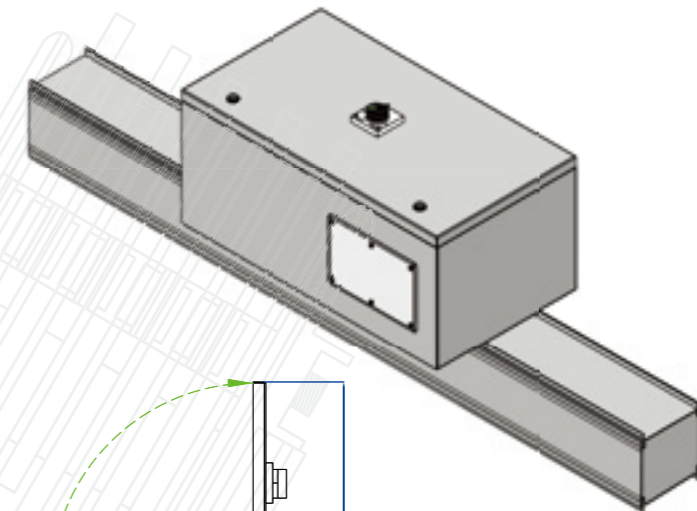
## ( 16 ) CENTER FEEDER UNIT ( CENTER TAP BOX )

(W)	Al	Cu	(X)	3P	4P	5P
mm	mm	mm	mm	mm	mm	mm
630A	91	---	129	135	153	
800A	91	91				
1000A	121	91				
1250A	151	106				
1600A	221	151				
2000A	221	186				
2500A	271	221				
3200A	418	271				
4000A	418	348				
5000A	518	418				
6300A	---	518				



## ( 18 ) TAP-OFF UNITS - CLAMP TYPE ( PLUGS )

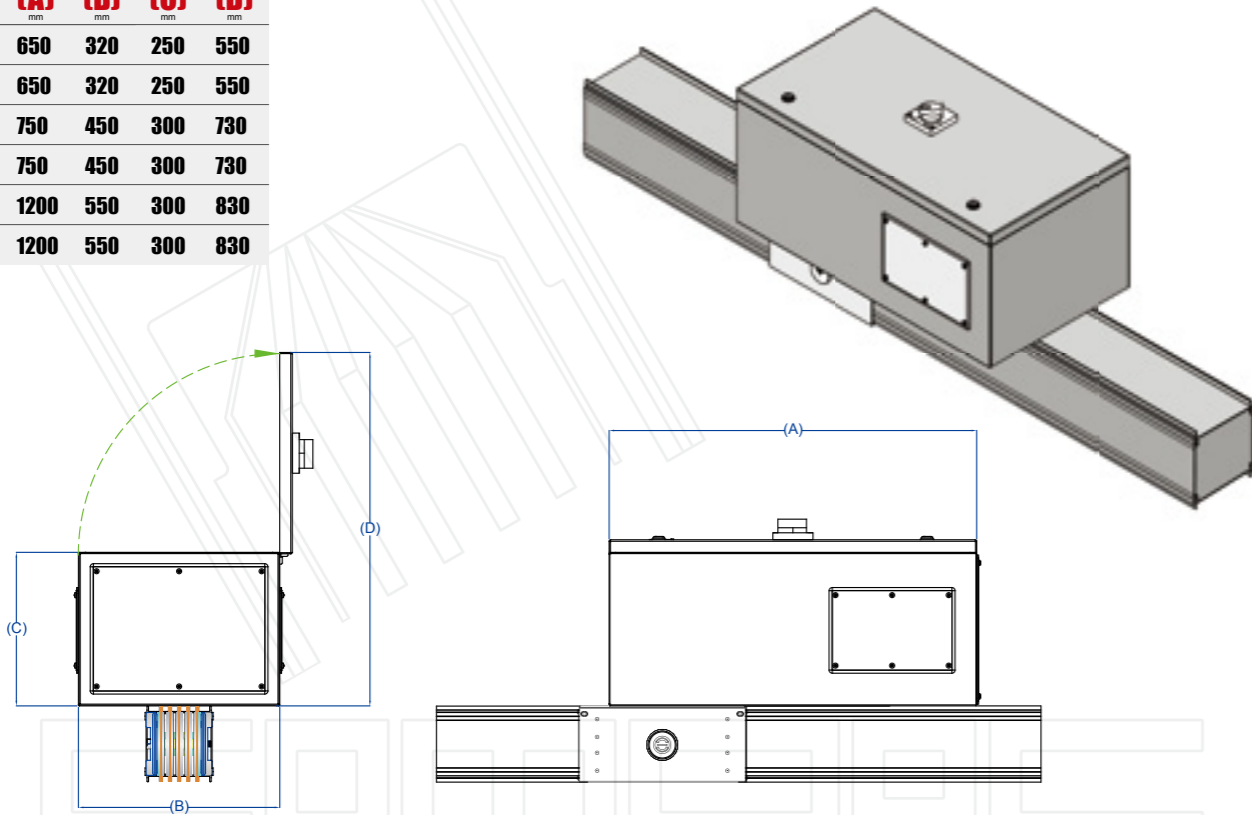
	(A)	(B)	(C)	(D)
mm	mm	mm	mm	mm
160A	520	320	210	650
250A	520	320	210	650
400A	735	420	340	710
630A	735	420	340	710



## COMPOSITION AND ACCESSORIES

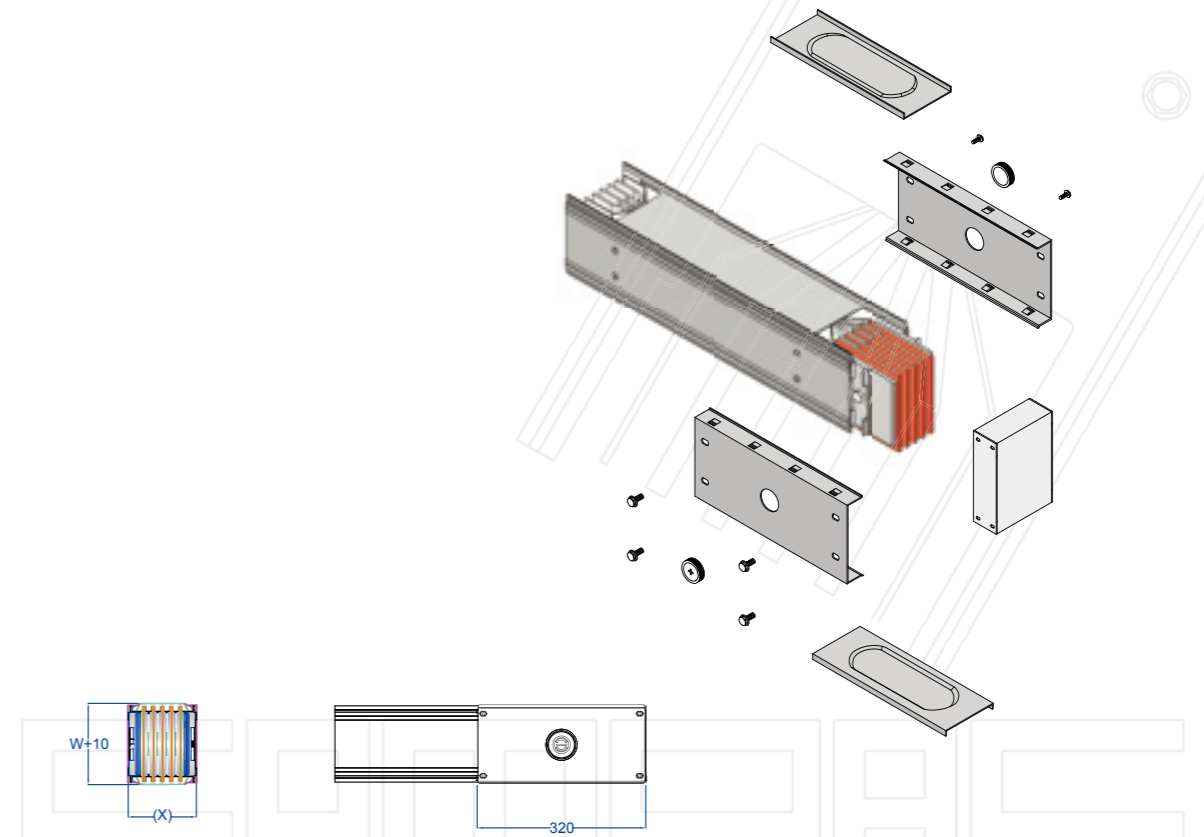
### ( 19 ) TAP-OFF UNITS - JUNCTION MOUNTED ( POWER TAKEOFFS )

	(A) mm	(B) mm	(C) mm	(D) mm
160A	650	320	250	550
250A	650	320	250	550
400A	750	450	300	730
630A	750	450	300	730
800A	1200	550	300	830
1250A	1200	550	300	830

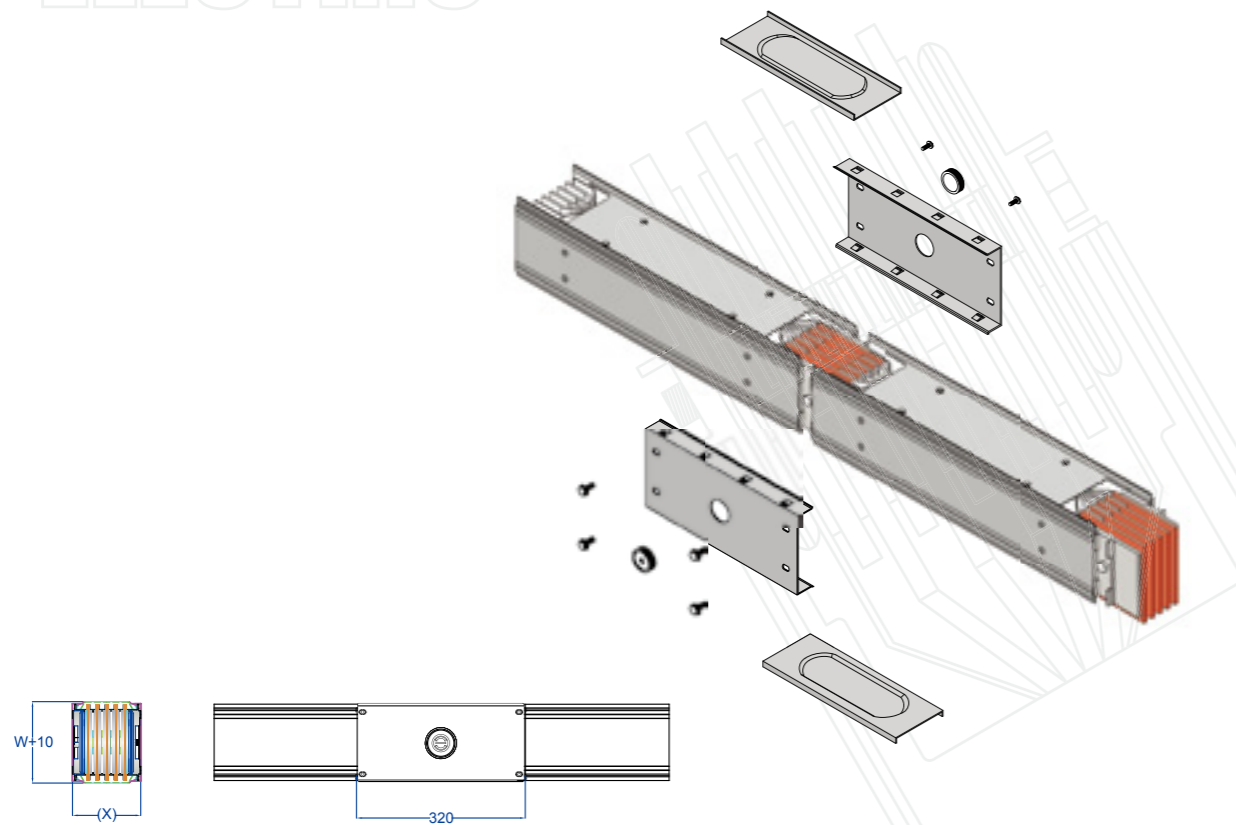


## COMPOSITION AND ACCESSORIES

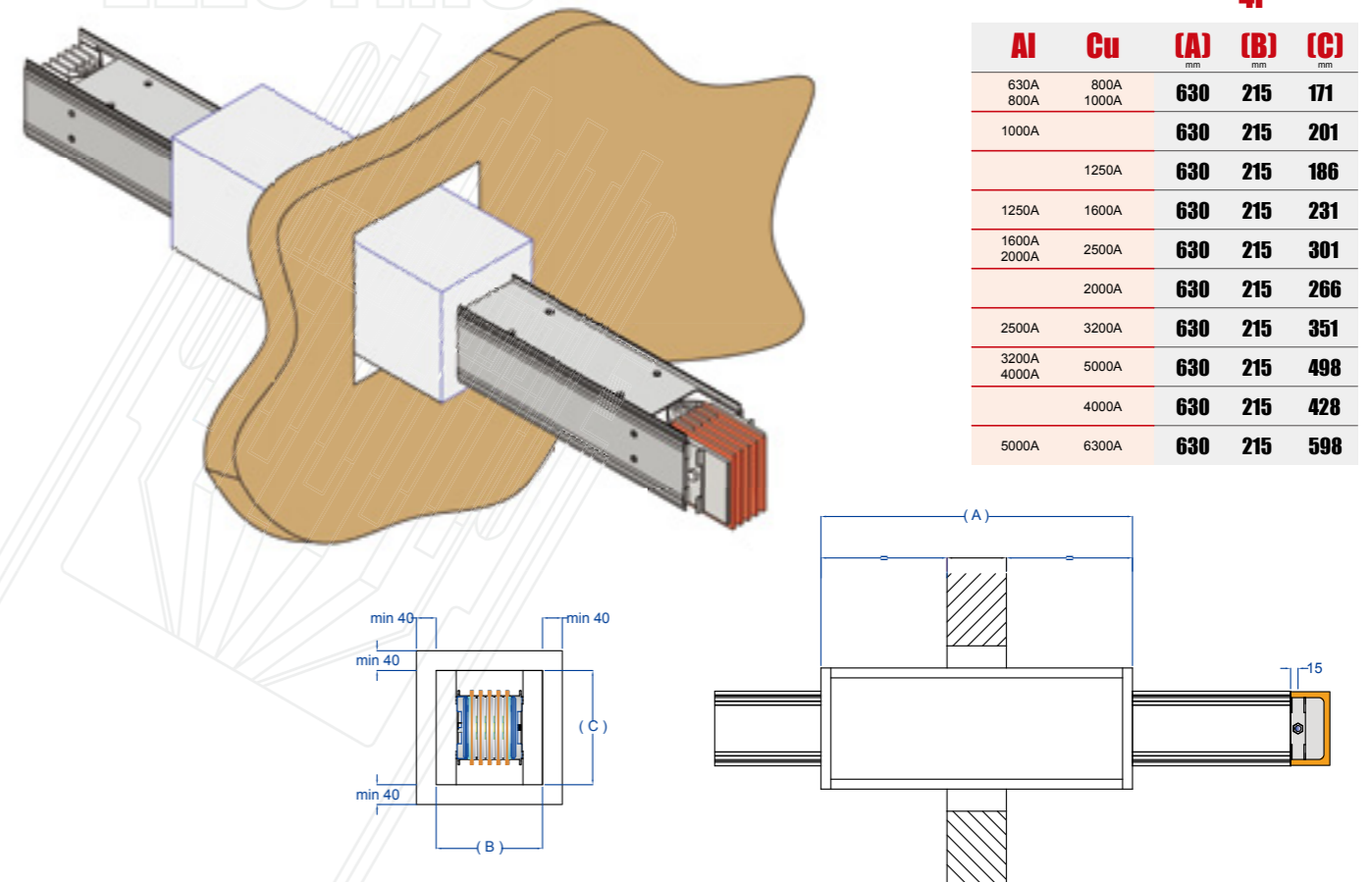
### ( 21 ) END COVER



### ( 20 ) JOINT COVER



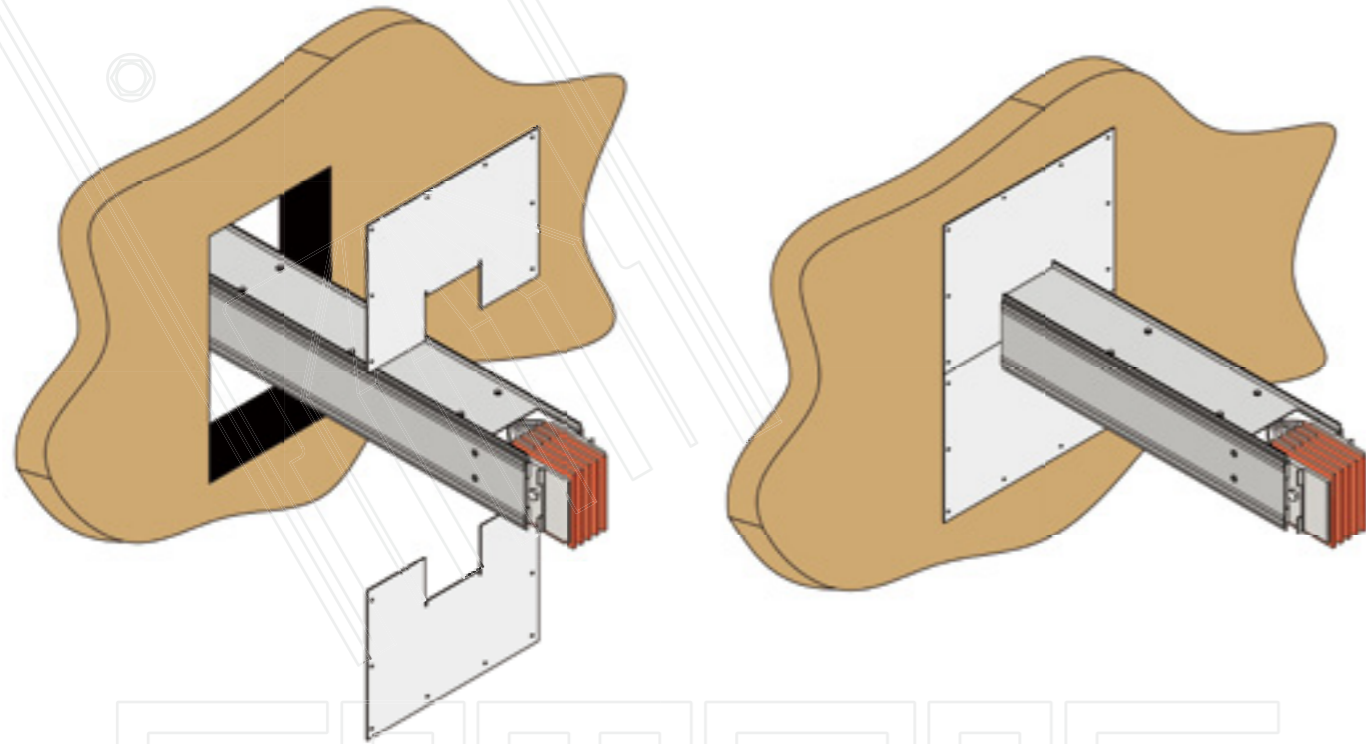
### ( 22 ) FIRE BARRIER UNIT



		4P		
Al	Cu	(A) mm	(B) mm	(C) mm
630A 800A	800A 1000A	630	215	171
1000A		630	215	201
	1250A	630	215	186
1250A	1600A	630	215	231
1600A 2000A	2500A	630	215	301
	2000A	630	215	266
2500A	3200A	630	215	351
3200A 4000A	5000A	630	215	498
	4000A	630	215	428
5000A	6300A	630	215	598

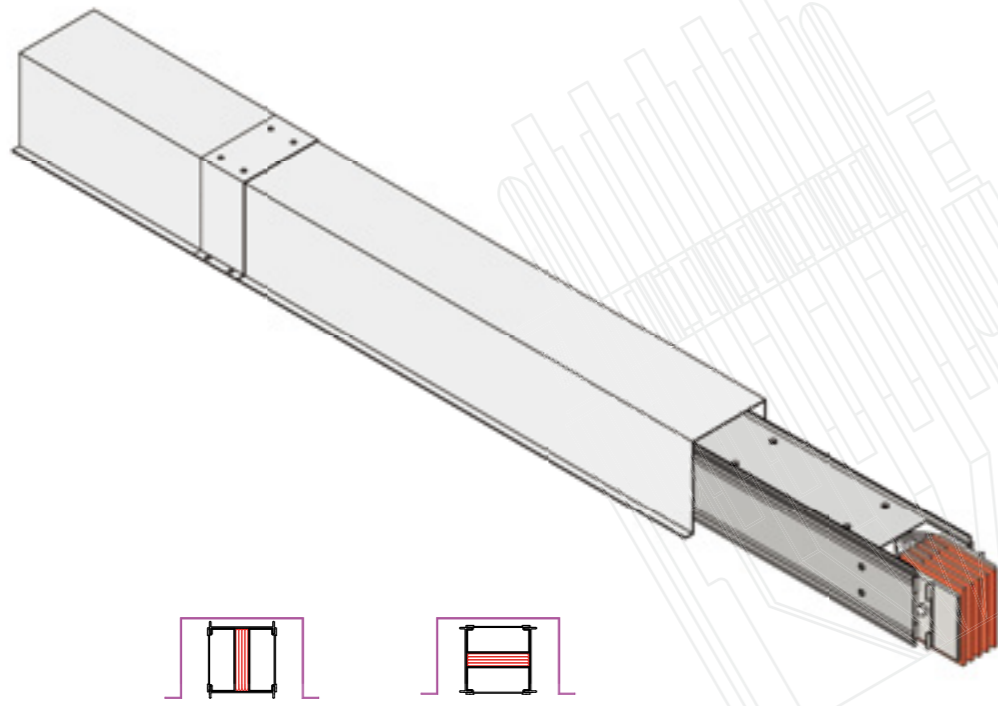
## COMPOSITION AND ACCESSORIES

### [ 23 ] WALL / FLOOR FLANGES



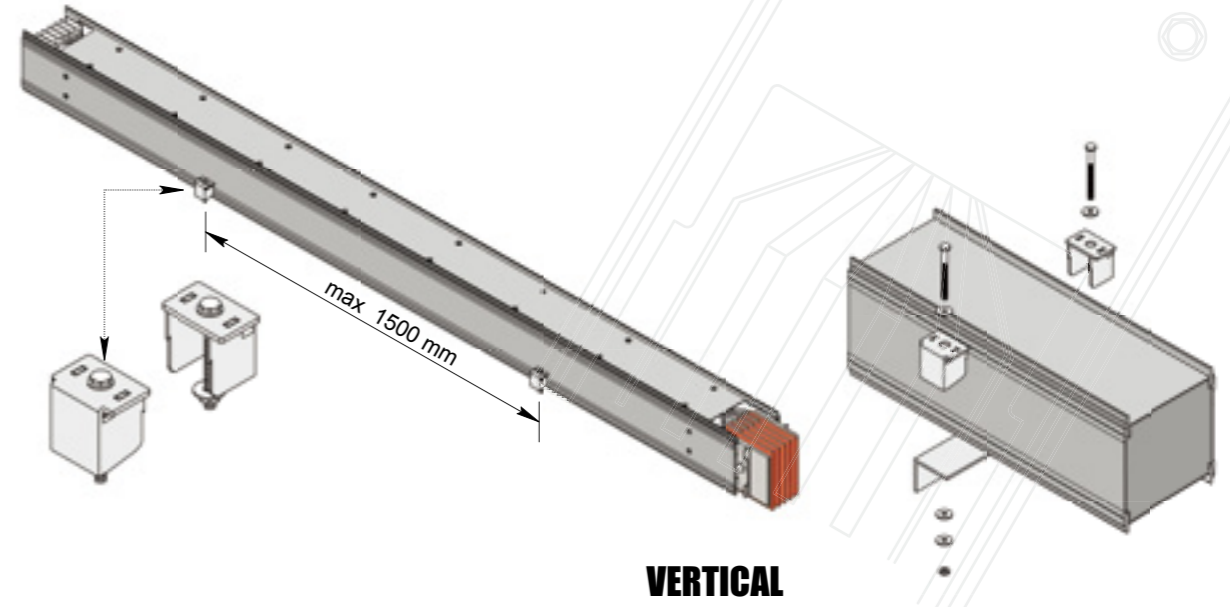
20

### [ 24 ] STAINLESS CANOPY

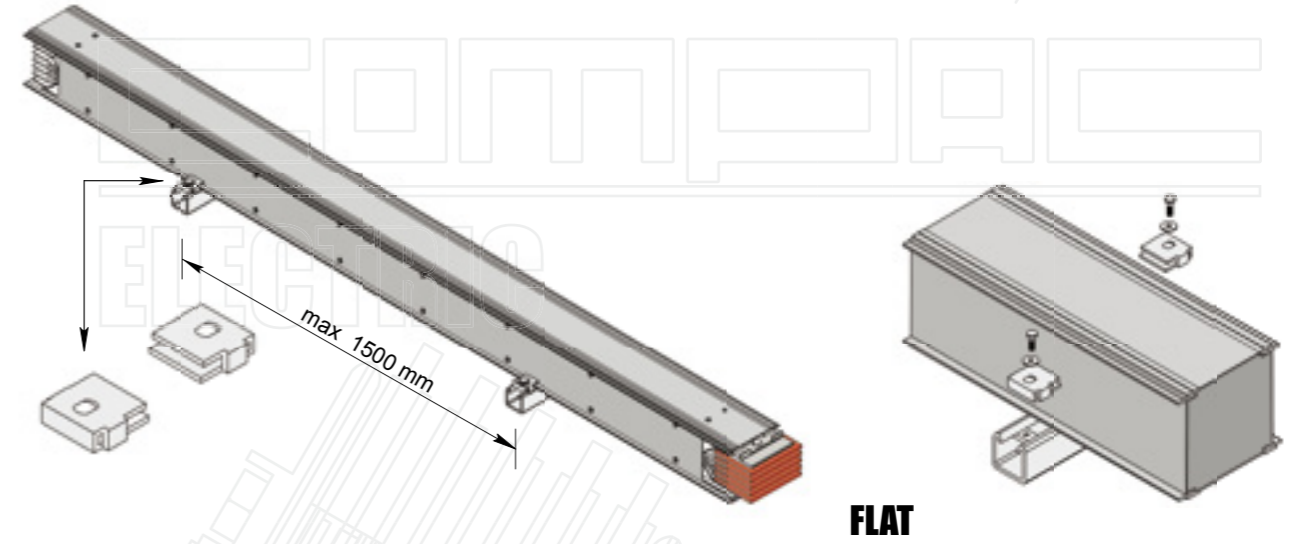


## COMPOSITION AND ACCESSORIES

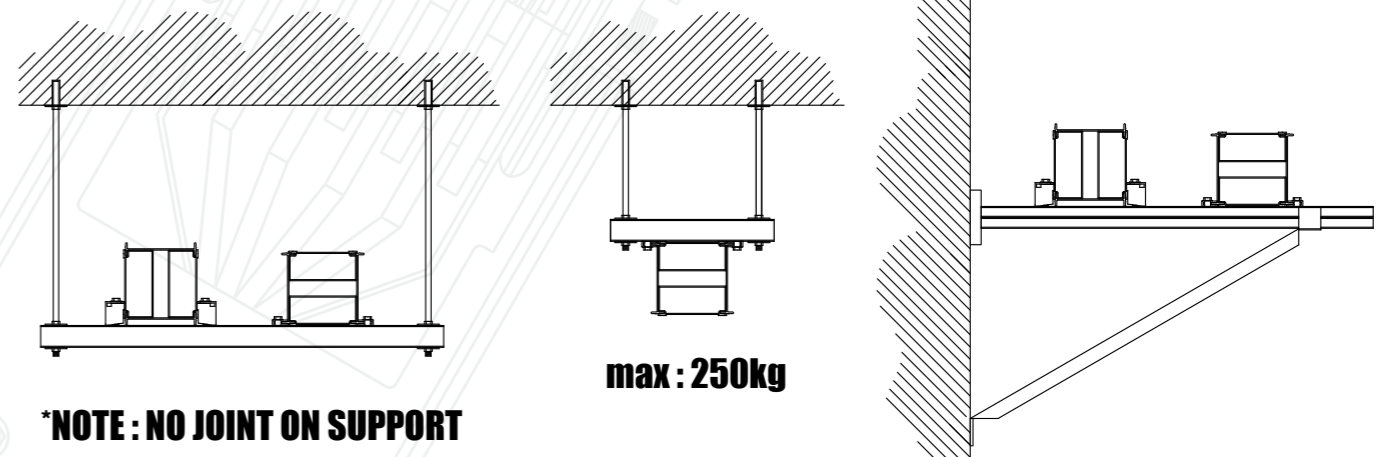
### [ 25 ] FIXING UNIT - FLAT / VERTICAL



VERTICAL



FLAT



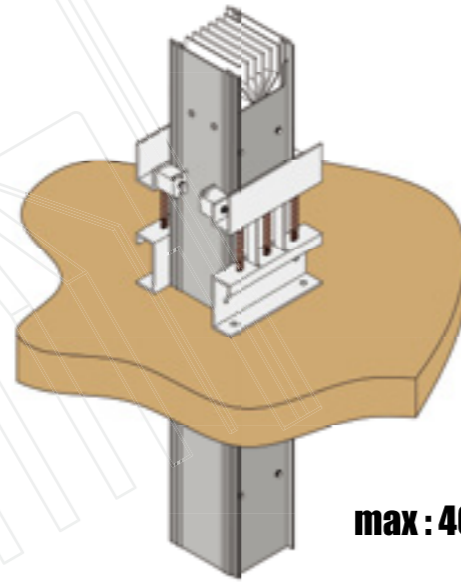
max : 250kg

\*NOTE: NO JOINT ON SUPPORT

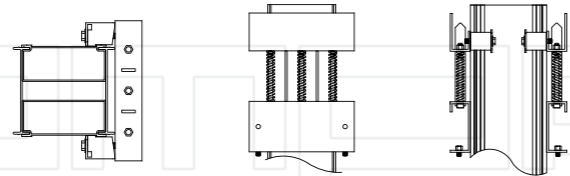
21

# COMPOSITION AND ACCESSORIES

## ( 26 ) SUSPENSION UNITS FOR VERTICAL RUNS ( HIGH - RISE )

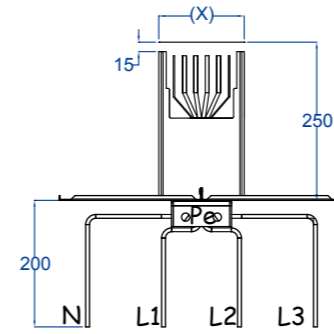


max : 400kg

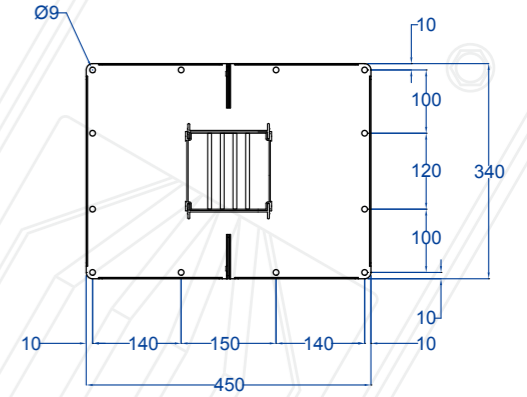


# COMPOSITION AND ACCESSORIES

## ( 27-1 ) BUSbar & Cut-OFF



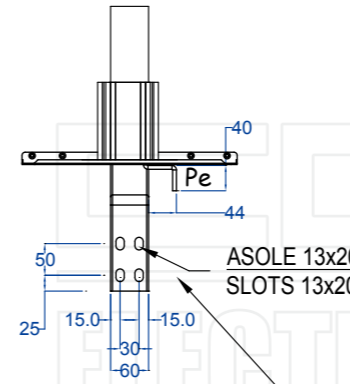
FLANGIA STANDARD  
STANDARD FLANGE



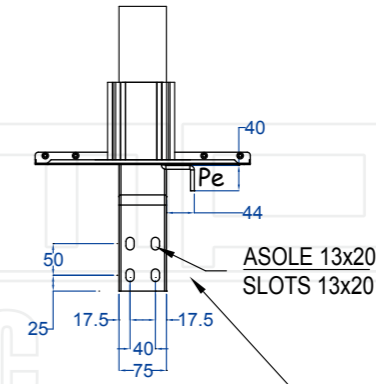
**AL 630A - 800A**  
**CU 800A - 1000A**

**CU 1250A**

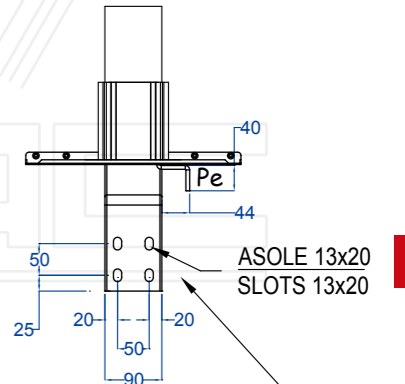
**AL 1000A**



VITI DI COLLEGAMENTO M12x60  
CONNECTION SCREW M12x60



VITI DI COLLEGAMENTO M12x60  
CONNECTION SCREW M12x60

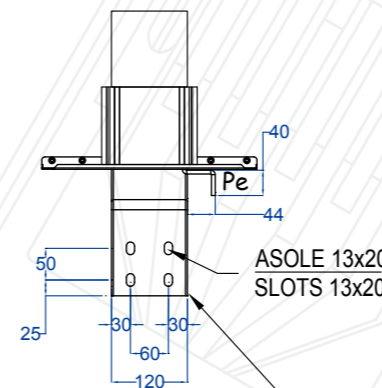


VITI DI COLLEGAMENTO M12x60  
CONNECTION SCREW M12x60

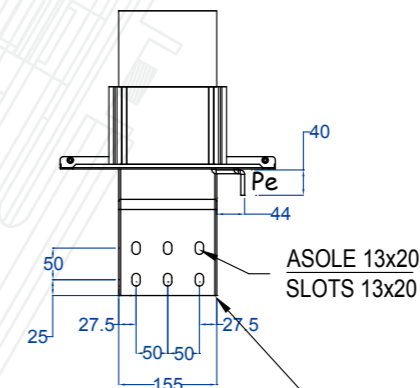
**AL 1250A**  
**CU 1600A**

**CU 2000A**

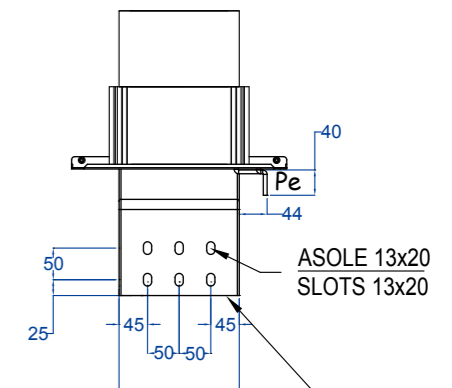
**AL 1600A 2000A**  
**CU 2500A**



VITI DI COLLEGAMENTO M12x60  
CONNECTION SCREW M12x60



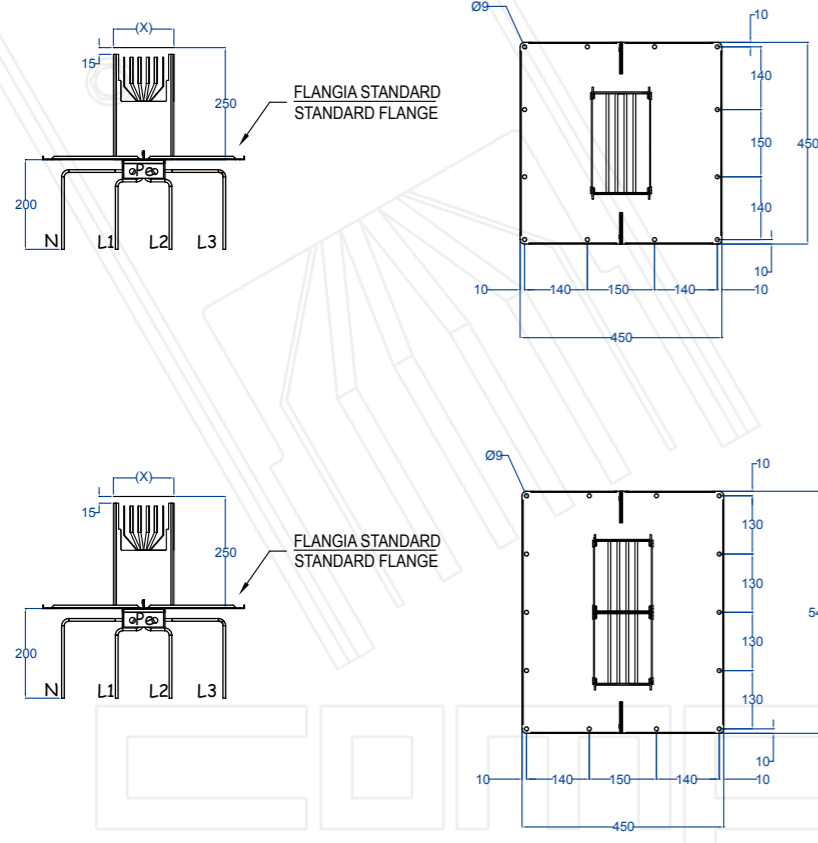
VITI DI COLLEGAMENTO M12x60  
CONNECTION SCREW M12x60



VITI DI COLLEGAMENTO M12x60  
CONNECTION SCREW M12x60

# COMPOSITION AND ACCESSORIES

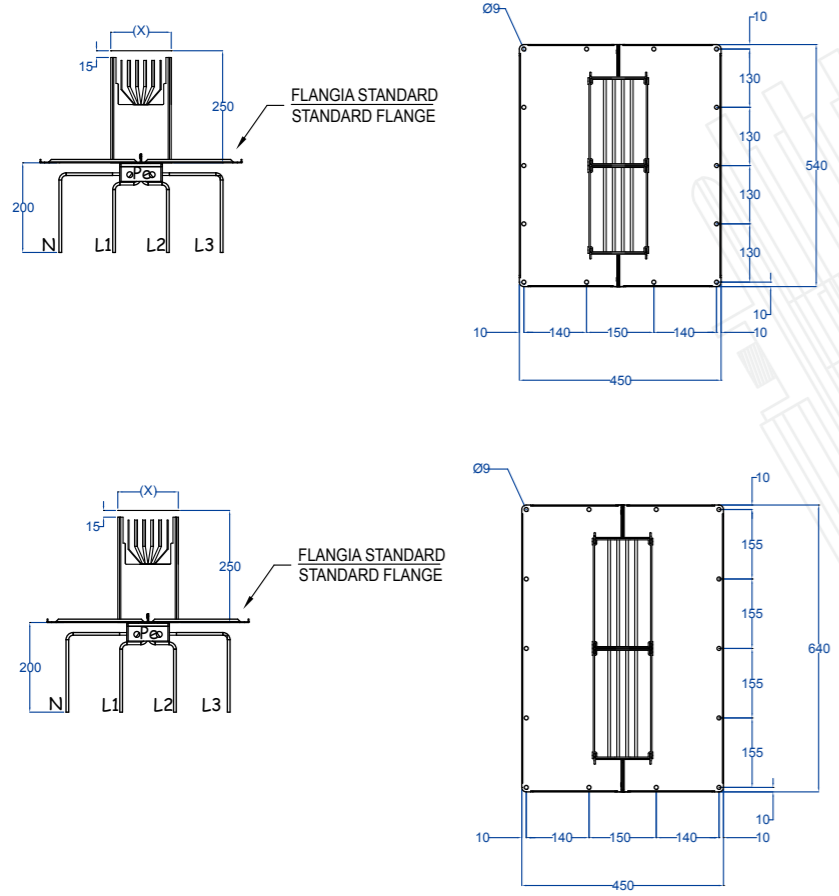
## ( 27-2 ) BUSbar & Cut-OFF



**AL 2500A  
CU 3200A**

**CU 4000A**

## ( 27-3 ) BUSbar & Cut-OFF



**AL 3200A 4000A  
CU 5000A**

**AL 5000A  
CU 6300A**

# TECHNICAL DATA / TECHNICS / TECHNICAL INFORMATION

## Aluminum

Rated Current	Amps	800	630	800	1000	1250 (1350*)	1600	2000	2500	3200 (3000*)	4000	5000
Reference Standard												
Operation Voltage	Volts			1000								
Frequency	Hz			50/60								
Protection Degree (IP Class)				IP 55, IP65/66, IP 67/68***								
Phase Rated Short-Circuit withstand	KA	50	50	60	70	85	100	120	150	170	200	
Phase Rated Peak Short-Circuit withstand - ≥ 3 Cycles	KA	100	100	110	140	185	210	260	330	370	400	
<b>Impedance Value</b>												
Phase Resistance (R20)	mΩ/m	0.074	0.074	0.066	0.04	0.031	0.0275	0.0216	0.0155	0.0137	0.01	
Phase Reactance (X)	mΩ/m	0.019	0.019	0.018	0.012	0.011	0.01	0.007	0.006	0.005	0.0035	
Phase Impedance (Z)	mΩ/m	0.076	0.076	0.068	0.042	0.033	0.029	0.023	0.017	0.015	0.011	
Thermal Phase Resistance (Rt)	mΩ/m	0.079	0.079	0.071	0.044	0.035	0.033	0.025	0.019	0.0163	0.0119	
cos= 0.7		0.0654	0.0654	0.0591	0.0366	0.0296	0.0264	0.0201	0.0151	0.0132	0.0095	
cos= 0.75		0.0681	0.0681	0.0614	0.0379	0.0305	0.0272	0.0208	0.0156	0.0136	0.0098	
cos= 0.8		0.0706	0.0706	0.0636	0.0392	0.0314	0.0280	0.0215	0.0160	0.0140	0.0101	
cos= 0.85		0.0729	0.0729	0.0656	0.0403	0.0321	0.0286	0.0220	0.0163	0.0143	0.0103	
cos= 0.9		0.0749	0.0749	0.0672	0.0412	0.0327	0.0291	0.0225	0.0166	0.0145	0.0105	
cos= 0.95		0.0762	0.0762	0.0683	0.0417	0.0329	0.0292	0.0227	0.0166	0.0146	0.0106	
cos= 1		0.0740	0.0740	0.0660	0.0400	0.0310	0.0275	0.0216	0.0155	0.0137	0.0100	
Weight (4 Pole)	Kg/m	13.5	13.5	15.0	18.0	24.0	25.0	31.0	46.5	48.5	59.5	
Number of Trunk	Nos.	1	1	1	1	1	1	1	2	2	2	
Joule Losses(3RF) at Nominal current	W/m	100.02	100.02	161.28	219.00	220.31	268.80	396.00	468.75	583.68	782.40	892.50

Note: (\*)Please Contact Your Local Agent for Quotation about required Ratings. (\*\*) In Accordance with UL 857. (\*\*\*) Only Available for Feeder Length as an Optional Feature.

All Rated Current are Related to an ambient temperature at 40°C.

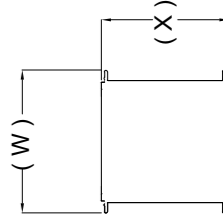
The Rated Current Should Be Derating as Shown Multipliers by Higher Ambient Temperatures.

Please Do Not Hesitate to Contact Your Local Agent for getting Further Information for Your Needs, or You can Send us an E-mail to [info@compacelectric.eu](mailto:info@compacelectric.eu)

35°C 50°C

1.06 0.96 0.84

( W )	630	800	1000	1250	1600	2000	2500	3200	4000	5000	6300	( X )	3P	4P	5P
Al	91	91	121	151	221	221	271	418	418	518	---		129	135	153
Cu	--	91	91	106	151	186	221	271	348	418	518				



# TECHNICAL DATA / TECHNICS / TECHNICAL INFORMATION

## Copper

Rated Current (Ambient Temperature 40°C)	1250 (1350*)	1600	2000	2500	3200 (3000*)	4000	5000	6300
Reference Standard	IEC 439-1-IEC 439-2, CEI EN 60439-1-CEI EN 60439-2, UL 857**							
Operation Voltage	1000							
Frequency	50/60							
Protection Degree (IP Class)	IP 55, IP65/66, IP 67/68***							
Phase Rated Short-Circuit withstand	60	70	85	100	120	150	170	200
Phase Rated Peak Short-Circuit withstand - ≥ 3 Cycles	110	140	185	210	260	330	370	400
<b>Impedance Value</b>								
Phase Resistance (R20)	0.0355	0.0264	0.0214	0.0168	0.0108	0.0107	0.0084	0.006
Phase Reactance (X)	0.021	0.017	0.013	0.01	0.006	0.005	0.004	0.004
Phase Impedance (Z)	0.041	0.031	0.025	0.020	0.012	0.012	0.009	0.007
Thermal Phase Resistance (Rt)	0.039	0.029	0.024	0.018	0.012	0.0115	0.0095	0.0068
cos= 0.7	0.0398	0.0306	0.0243	0.0189	0.0118	0.0111	0.0087	0.0071
cos= 0.75	0.0405	0.0310	0.0246	0.0192	0.0121	0.0113	0.0089	0.0071
cos= 0.8	0.0410	0.0313	0.0249	0.0194	0.0122	0.0116	0.0091	0.0072
cos= 0.85	0.0412	0.0314	0.0250	0.0195	0.0123	0.0117	0.0092	0.0072
cos= 0.9	0.0411	0.0312	0.0249	0.0195	0.0123	0.0118	0.0093	0.0071
cos= 0.95	0.0403	0.0304	0.0244	0.0191	0.0121	0.0117	0.0092	0.0069
cos= 1	0.0355	0.0264	0.0214	0.0168	0.0108	0.0107	0.0084	0.0060
Weight (4 Pole)	29.5	41	52	62.5	73	102.5	123.5	143
Number of Trunk	1	1	1	1	1	2	2	2
Joule Losses(3RF) at Nominal current	182.81	222.72	288.00	337.50	368.64	552.00	712.50	809.68

Note: (\*)Please Contact Your Local Agent for Quotation about required Ratings. (\*\*) In Accordance with UL 857. (\*\*\*) Only Available with Straight Length as an Optional Feature.

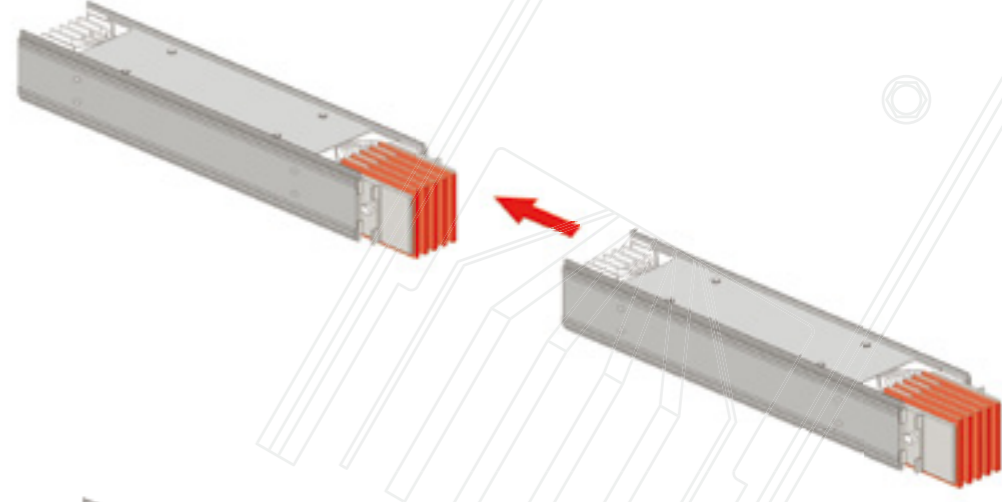
Calculate new voltage drop- $Vd(3P3W) = \text{Amps Load} \times \sqrt{3IR \cos\theta + X \sin \theta}$ , where  $\cos \theta = \text{Power Factor}$ . Please Contact Your local Agent for Free Service of COMPAC with electrical calculations.

$$\Delta V = mV/M/A$$

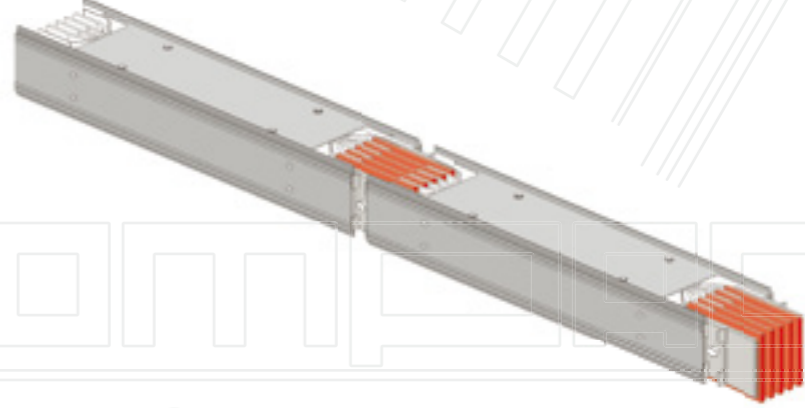
For Distributed Load

## CRITICAL ASSEMBLING WORK FOR JOINT

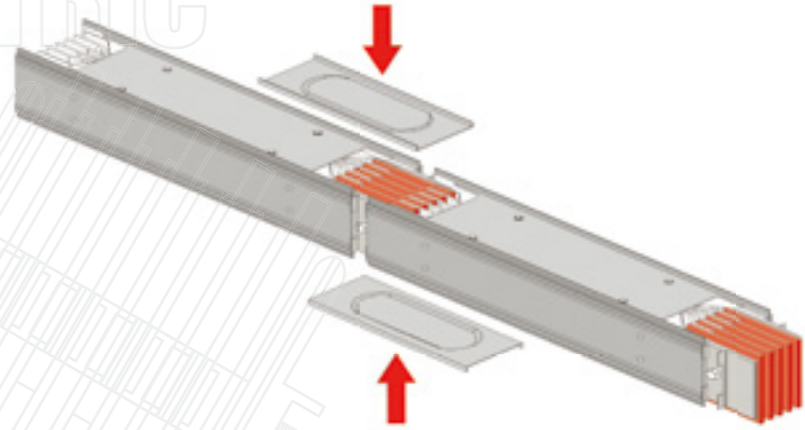
step ①



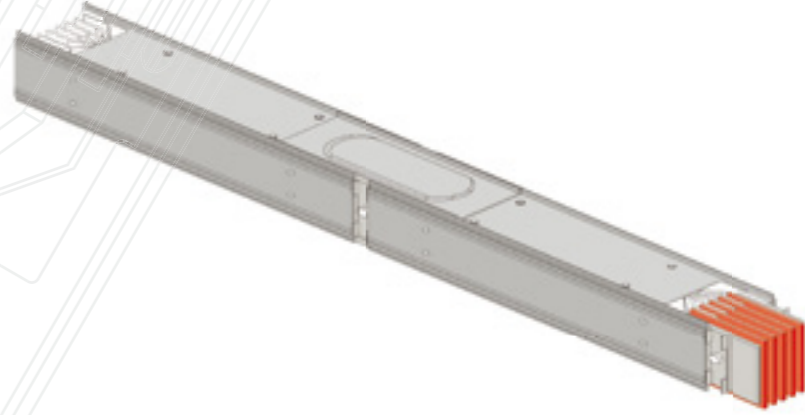
step ②



step ③



step ④

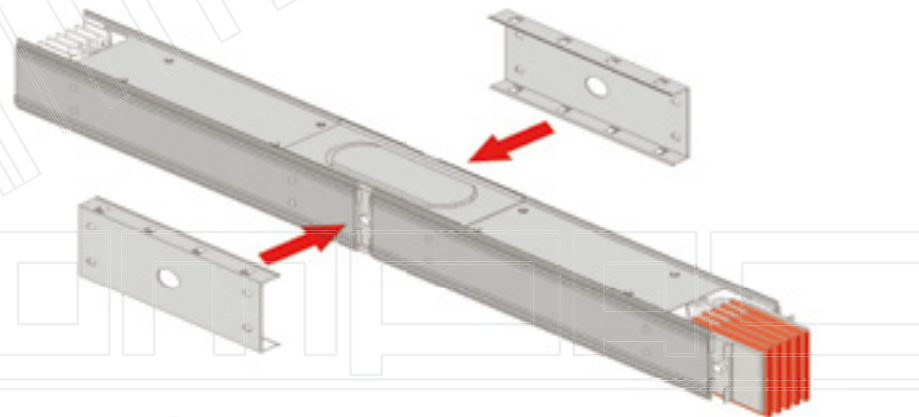


# CRITICAL ASSEMBLING WORK FOR JOINT

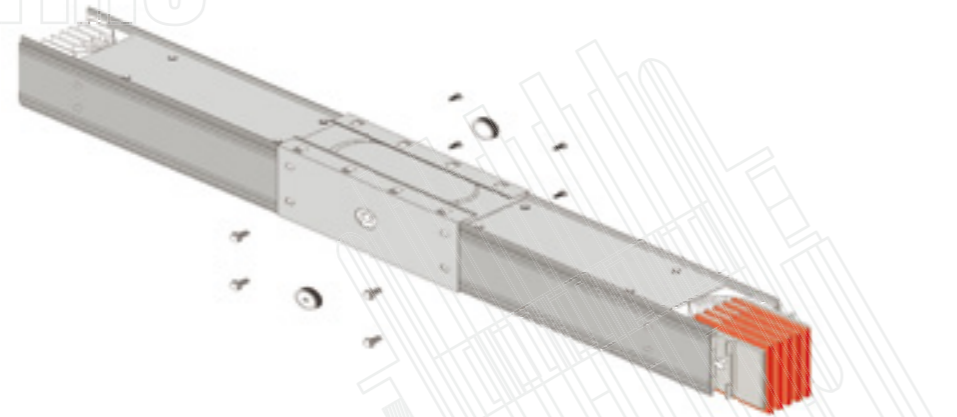
step ⑤



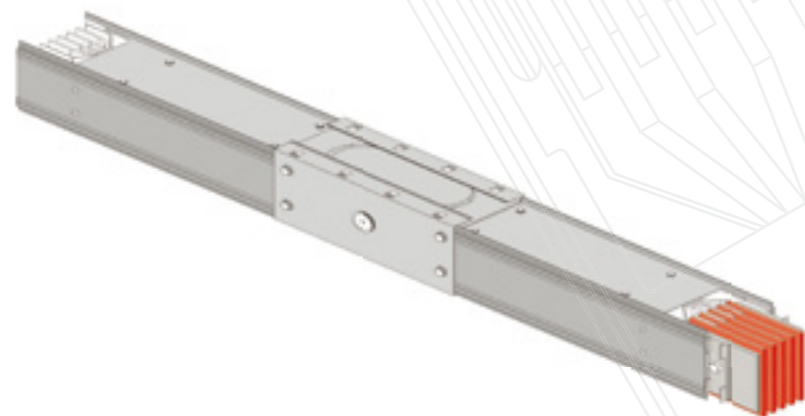
step ⑥



step ⑦



Completed ⑧



# NOTE

