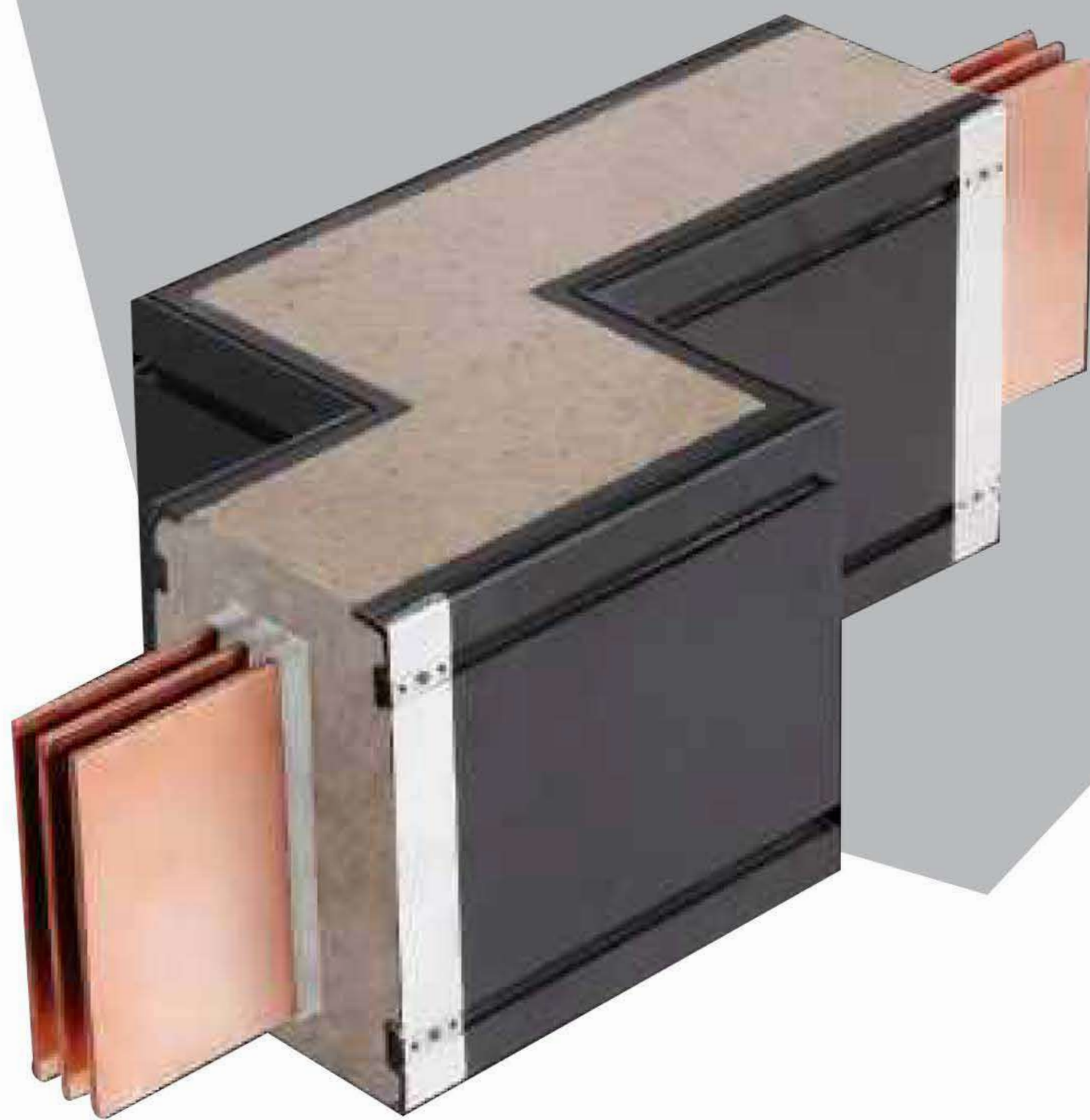


CAST RESIN BUSBAR TRUNKING SYSTEM

World View
Top Quality
Innovation



COMPAC
ELECTRIC

Product Feature



IP68 Waterproof Busduct System

COMPAC cast resin busbar provides whole system, including joint IP68 protection against water, dust or any other foreign matters. It enables busbar can not only be installed outdoor directly without any weather shield or canopy but also can be installed and well operated under water.

Complying IEC60529 standard, COMPAC cast resin busbar has been certified IP68 by KEMA, ASTA and IP67 by TERTEC(TAF awarded LAB) COMPAC cast resin busbar IP68 feature guarantees never accidents and maintenance free by unique casting insulation technology.



Fire Resistant Busduct System

COMPAC cast resin busbar natural rock insulation enclosing conductors provides Fire-Resistance, Self-extinguish, resistance to flame propagation. Besides complying IEC61439-6, COMPAC cast resin busbar system has also been type tested to BS6387 950°C 3hours, IEC60331 750°C 3hours and CNS14286 840°C 30min(Equivalent to JIS C 8364 & JIS A 1304).



Seismic Protection

COMPAC cast resin busbar system has been type tested to 2.2g PGA(Peak Ground Acceleration), equivalent to 9.0 Richter(magnitude) by 3rd independent testing authority.

Complying IEC62262 standard, COMPAC cast resin busbar has been certified IK10 mechanical impact by KEMA. Natural Rock Insulation enclosing conductors constructs COMPAC cast resin busbar system structure. It enables COMPAC cast resin busbar system confront earthquake or high impact with power energization.



Green Product Certificate

COMPAC cast resin busbar not only provides emergency power during fire conditions but also fulfills HFLS (Halogen Free and Low Smoke) tested by independent testing authority. This feature guarantees no poisonous gas or no fatal smoke from burned Busduct system.

Aluminum Housing on COMPAC cast resin busbar also radiates and dissipates heat very fast to effectively decrease conductor temperature and thus reduce resistance and power loss. Combining these technology contributes COMPAC cast resin busbar awarded GreenMark, Environmentally preferable Product, by Official Organization.



EMF Compliance

Besides 100% Earthing purpose, aluminum housing also encapsulates EMF Inside Busduct Itself. COMPAC cast resin busbar has been type tested to fulfill IEC60439-2 and ICNIRP EMF by independent TAF & CE-awarded Institute.



Maintenance Free

By On-Site Casting technology, COMPAC cast resin busbar is unique and renowned to the maintenance Free, no requirement for future examination or repair. Thus, it also saves lots of maintenance fee for end user.



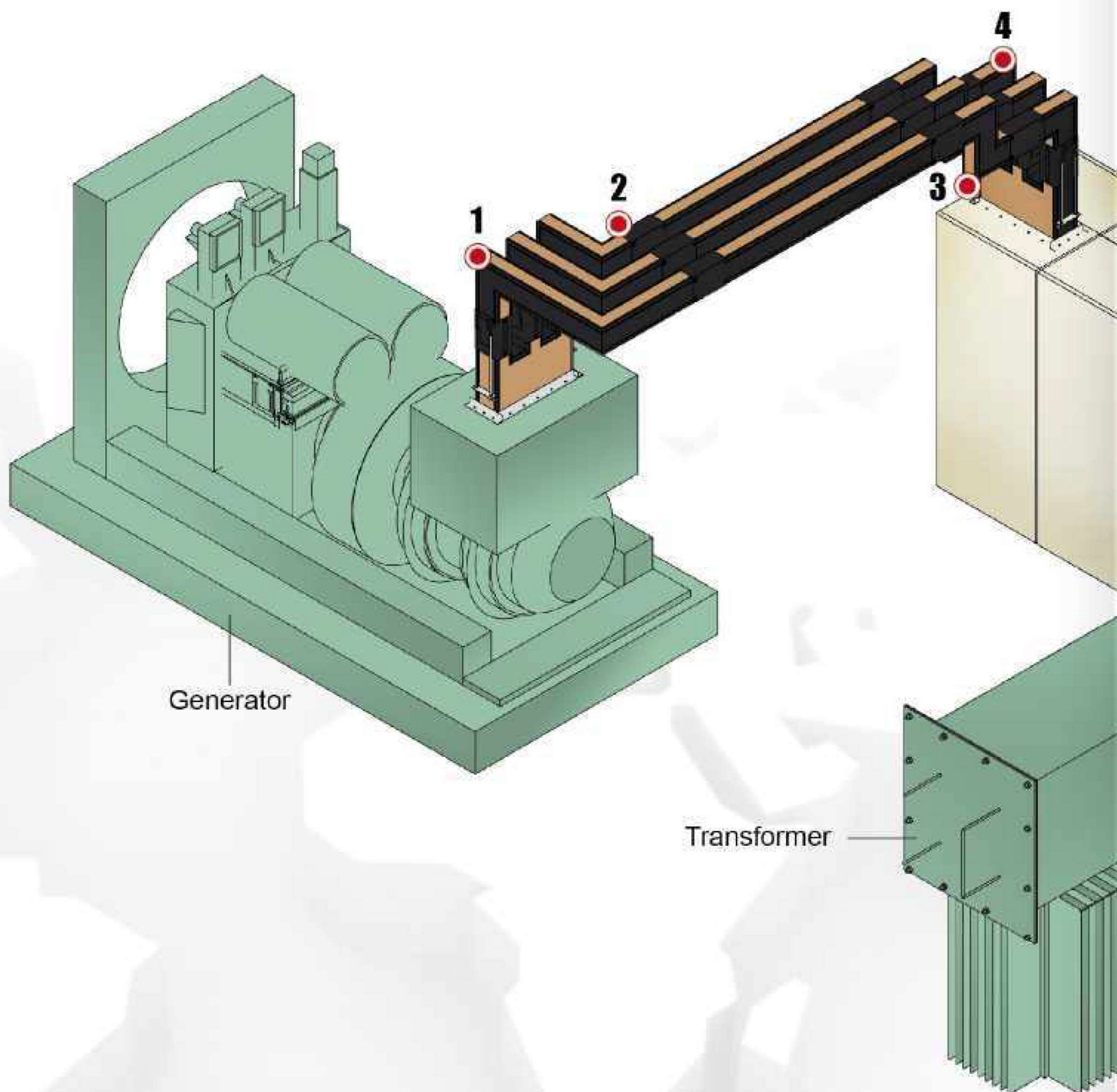
Chemical Resistance

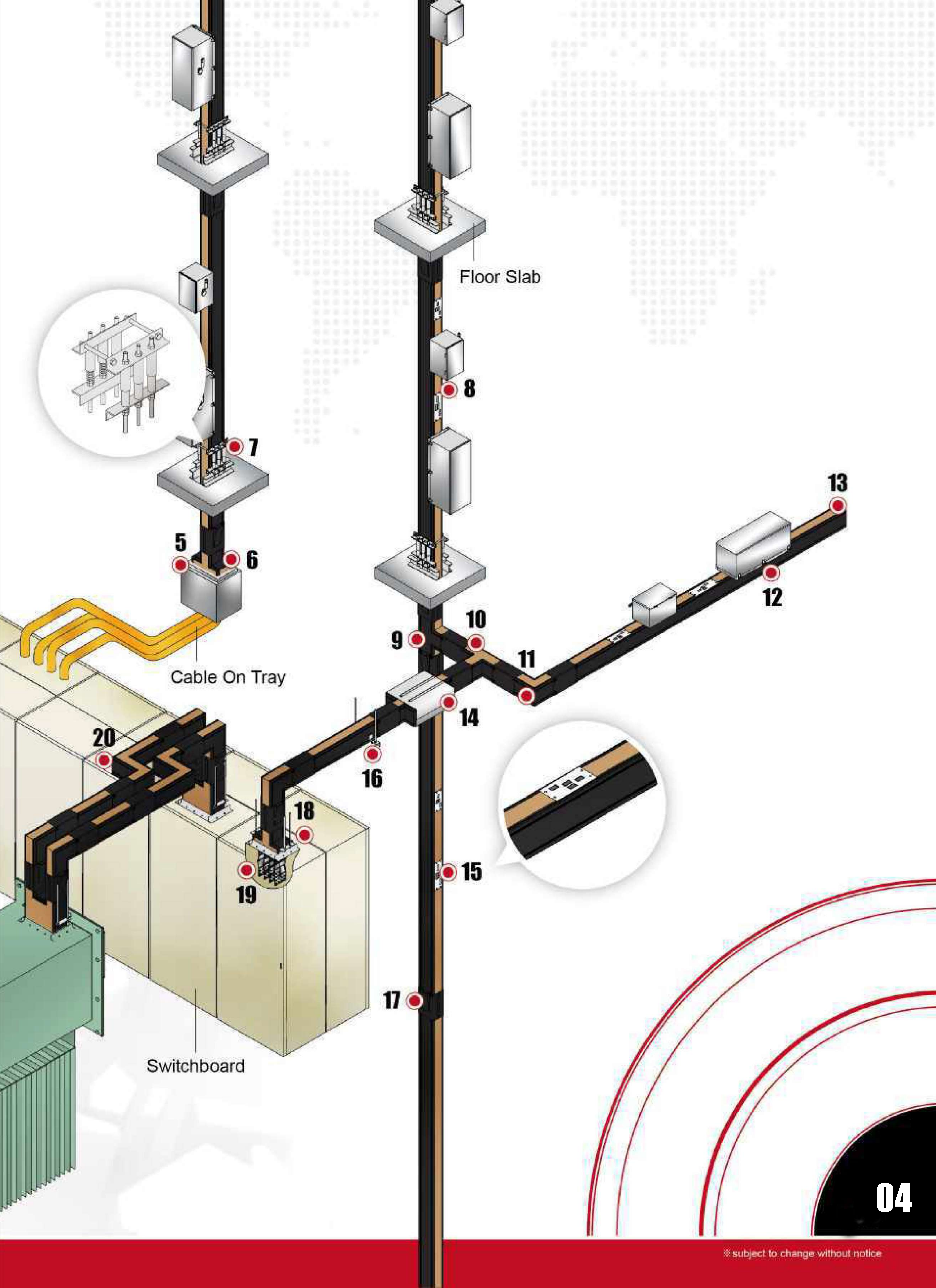
COMPAC cast resin busbar Insulation Material (WIM) has been carried out tests at supplier's laboratories to prove good results to acids or corrosive materials, such as Hydrochloric acid (10%), Liquid combustibles (petrol, oil....), Ammonium hydroxide (10%), etc.

System Overview

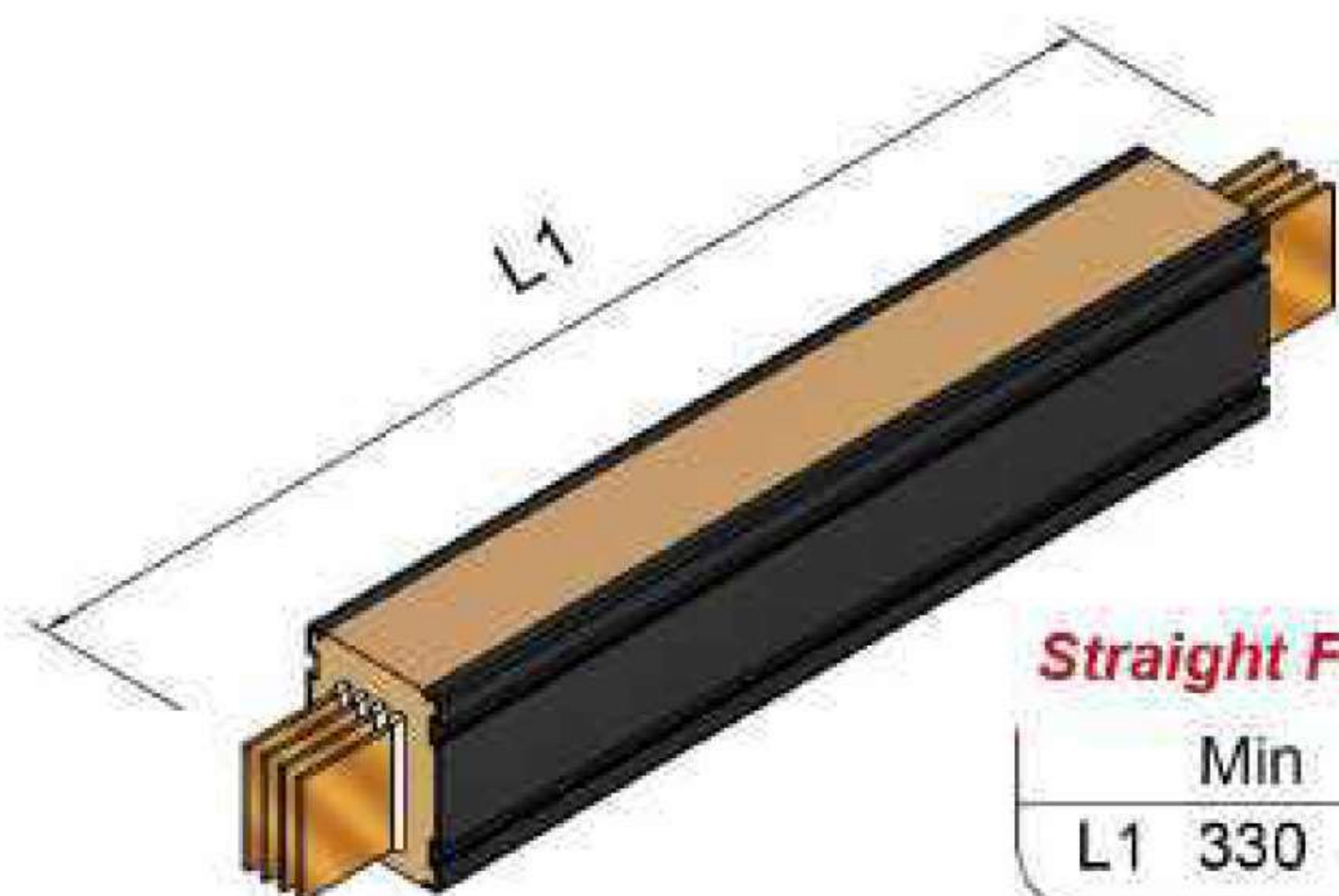
1	Combination Elbow
2	Horizontal Joint
3	Flatwise Offset Elbow
4	Flatwise Elbow
5	Flange End Box
6	Outdoor Flange End
7	Vertical Spring Hanger
8	Plug-In Hole
9	Flatwise Tee Elbow
10	Edgewise Tee Elbow

11	Edgewise Elbow
12	Tap Off Unit
13	End Cap
14	Expansion Unit
15	Plug-In Hole
16	Horizontal Hanger
17	Vertical Joint
18	Flange End
19	Flexible Link
20	Edgewise Offset Elbow



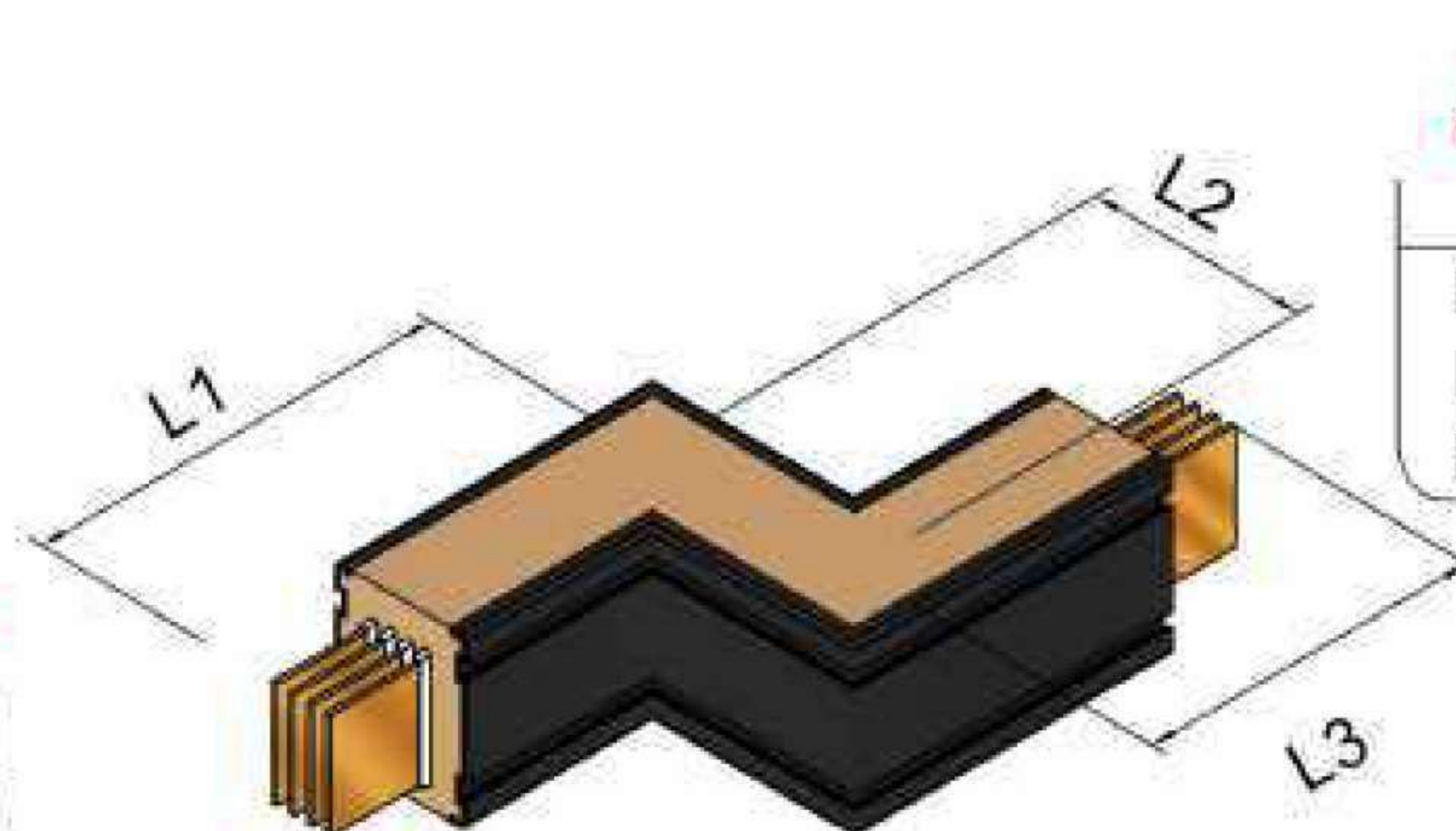


Busduct Assemblies



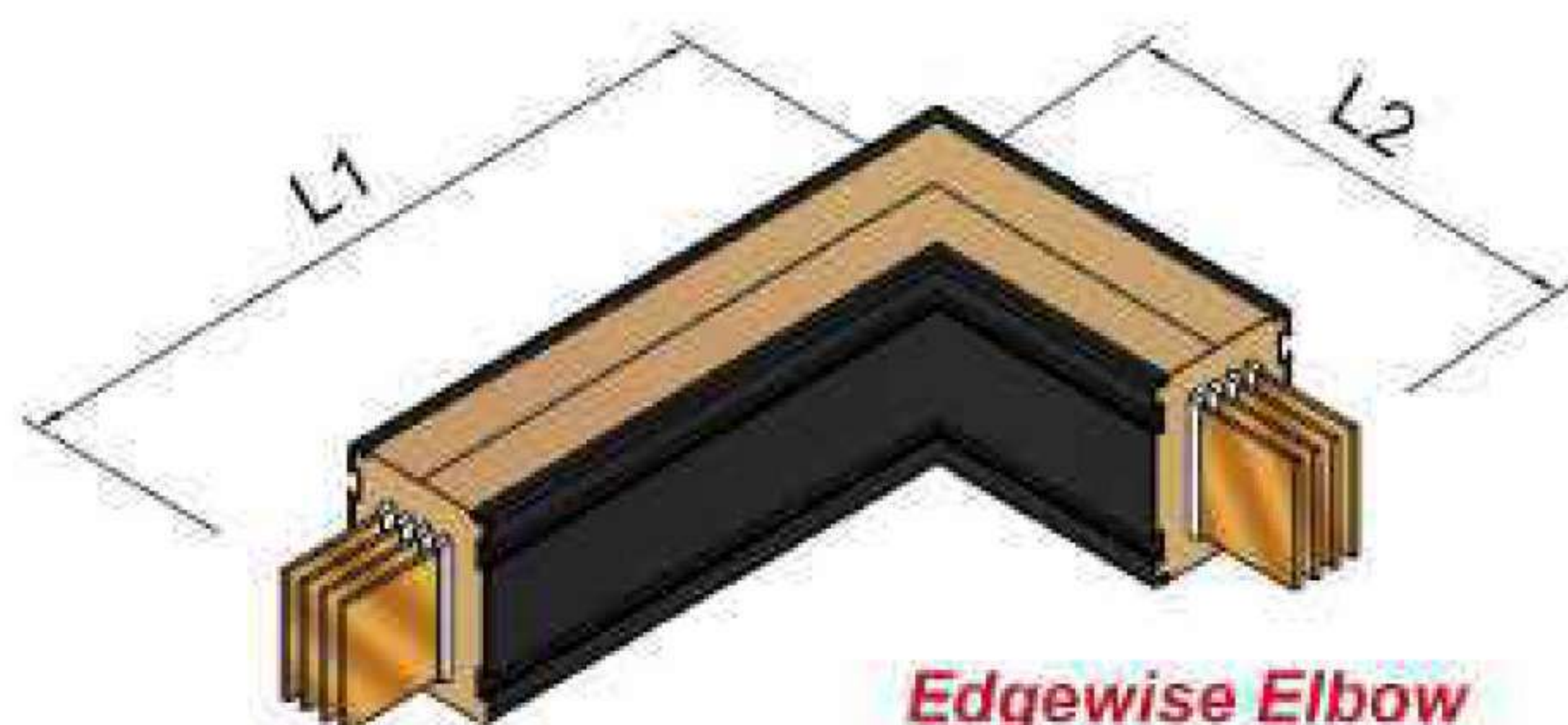
Straight Feeder

	Min	Max
L1	330	4000



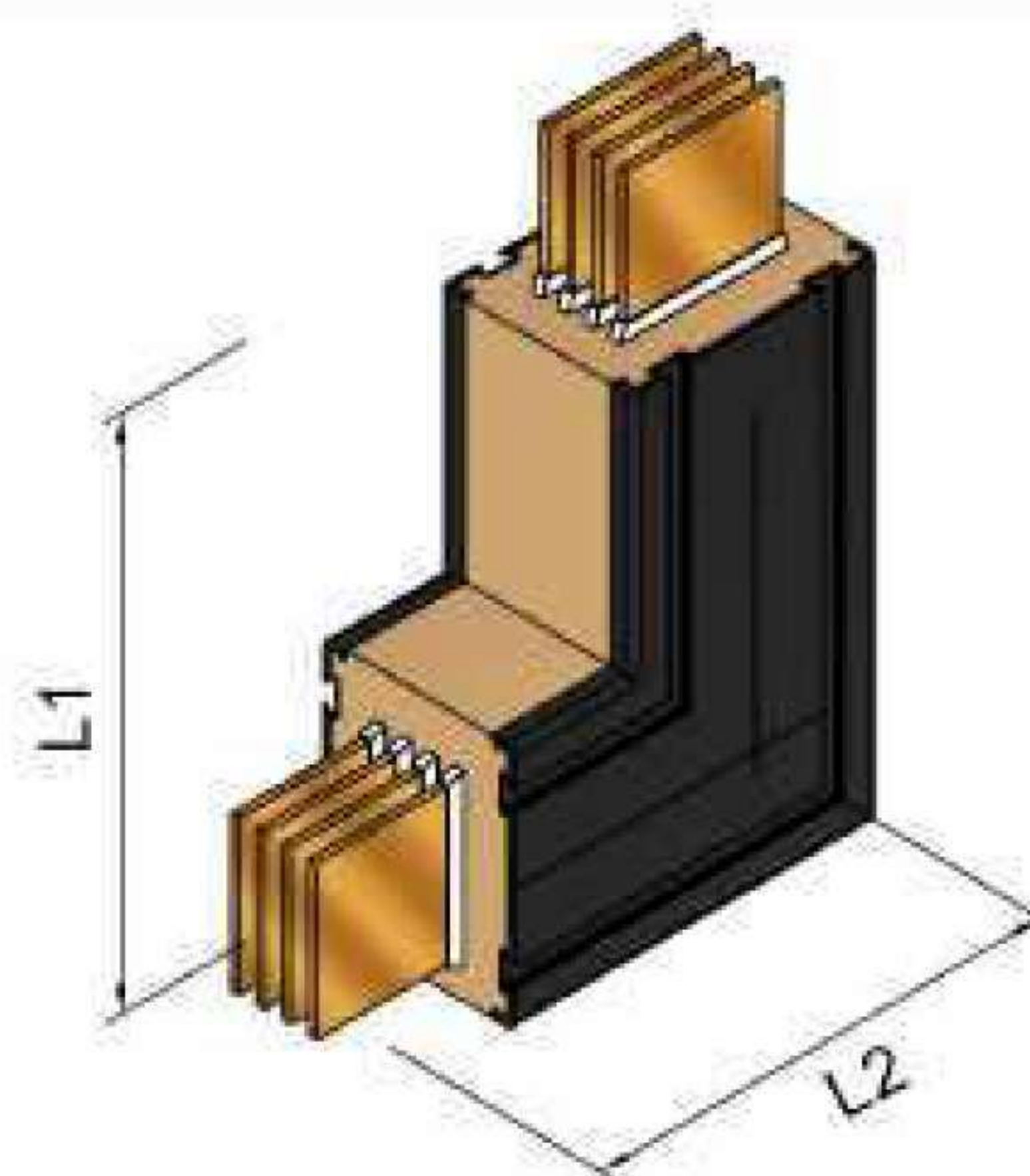
Edgewise Offset Elbow

	Min	Max
L1	240	650
L2	100	480
L3	240	650



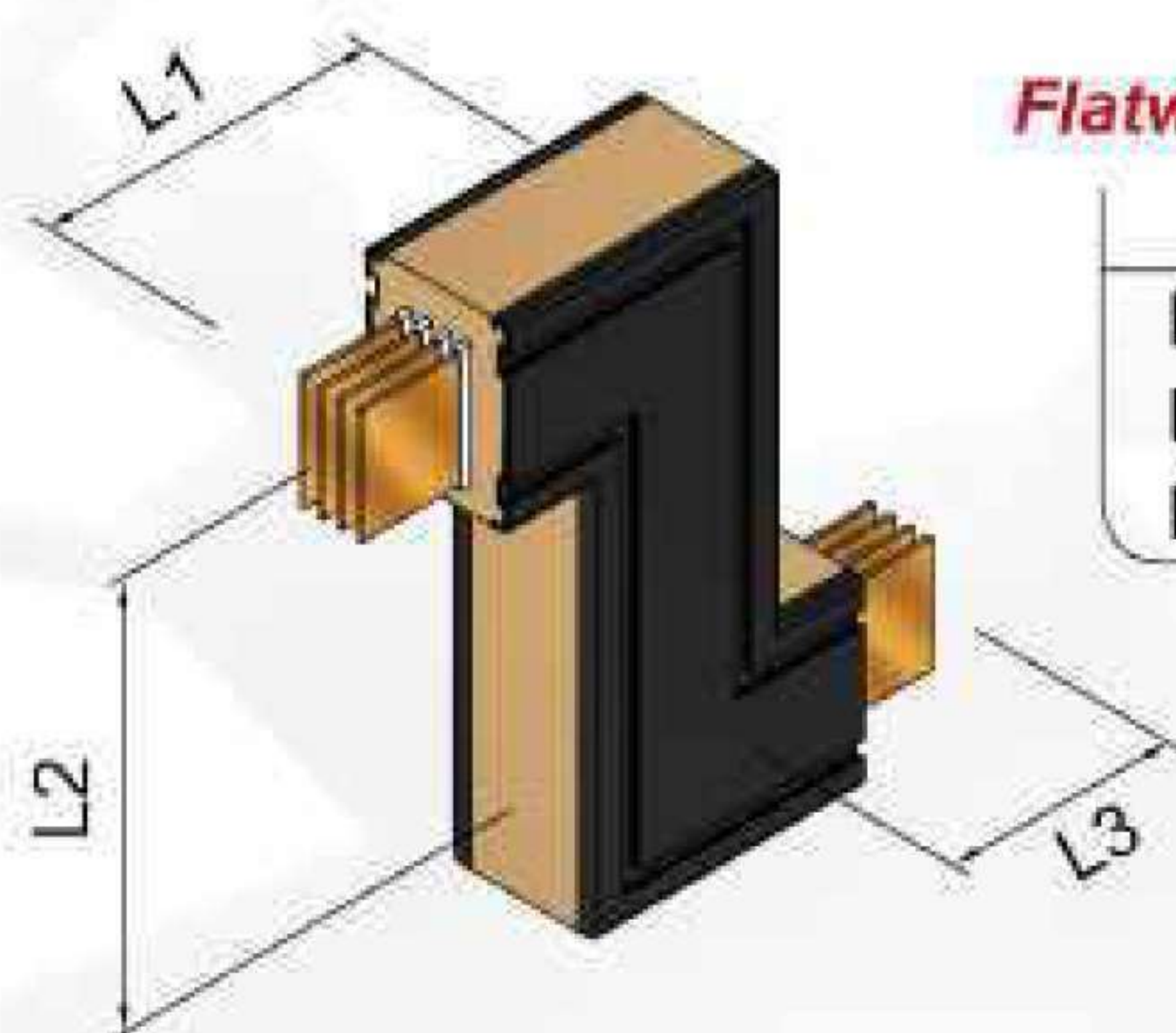
Edgewise Elbow

	Min	Max
L1	240	1000
L2	240	650



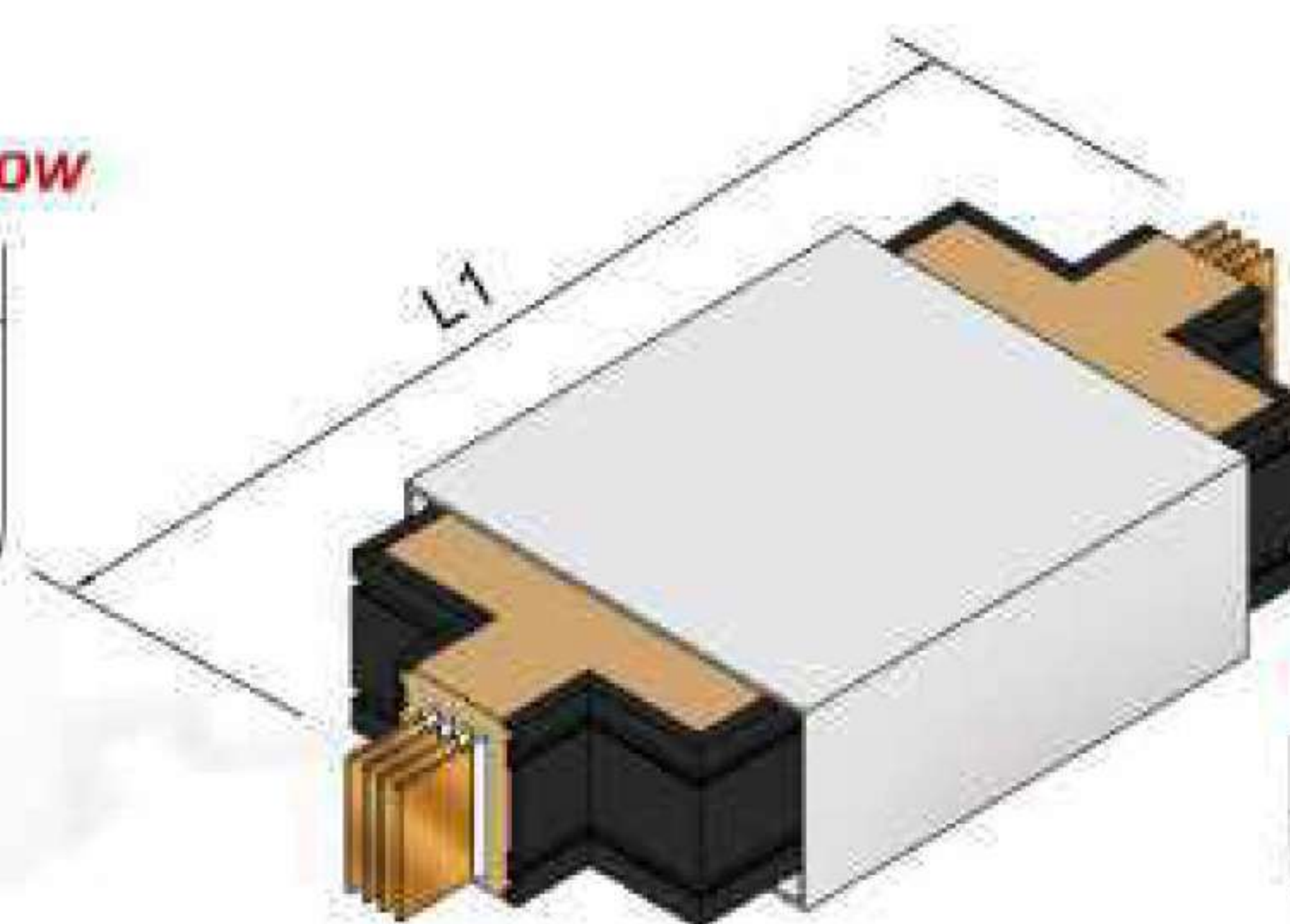
Flatwise Elbow

	Min	Max
L1	300	1000
L2	300	500



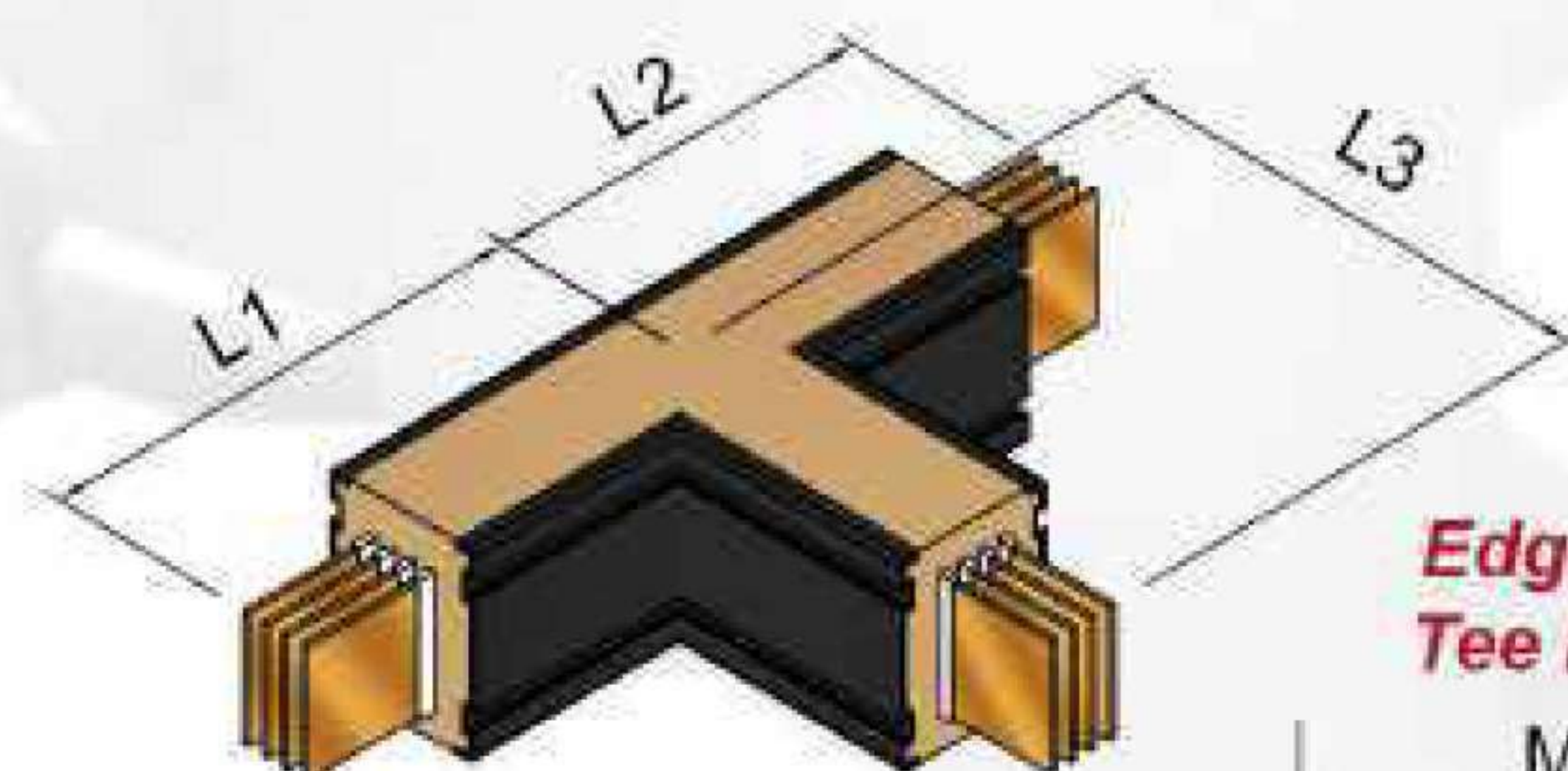
Flatwise Offset Elbow

	Min	Max
L1	300	650
L2	100	500
L3	300	300



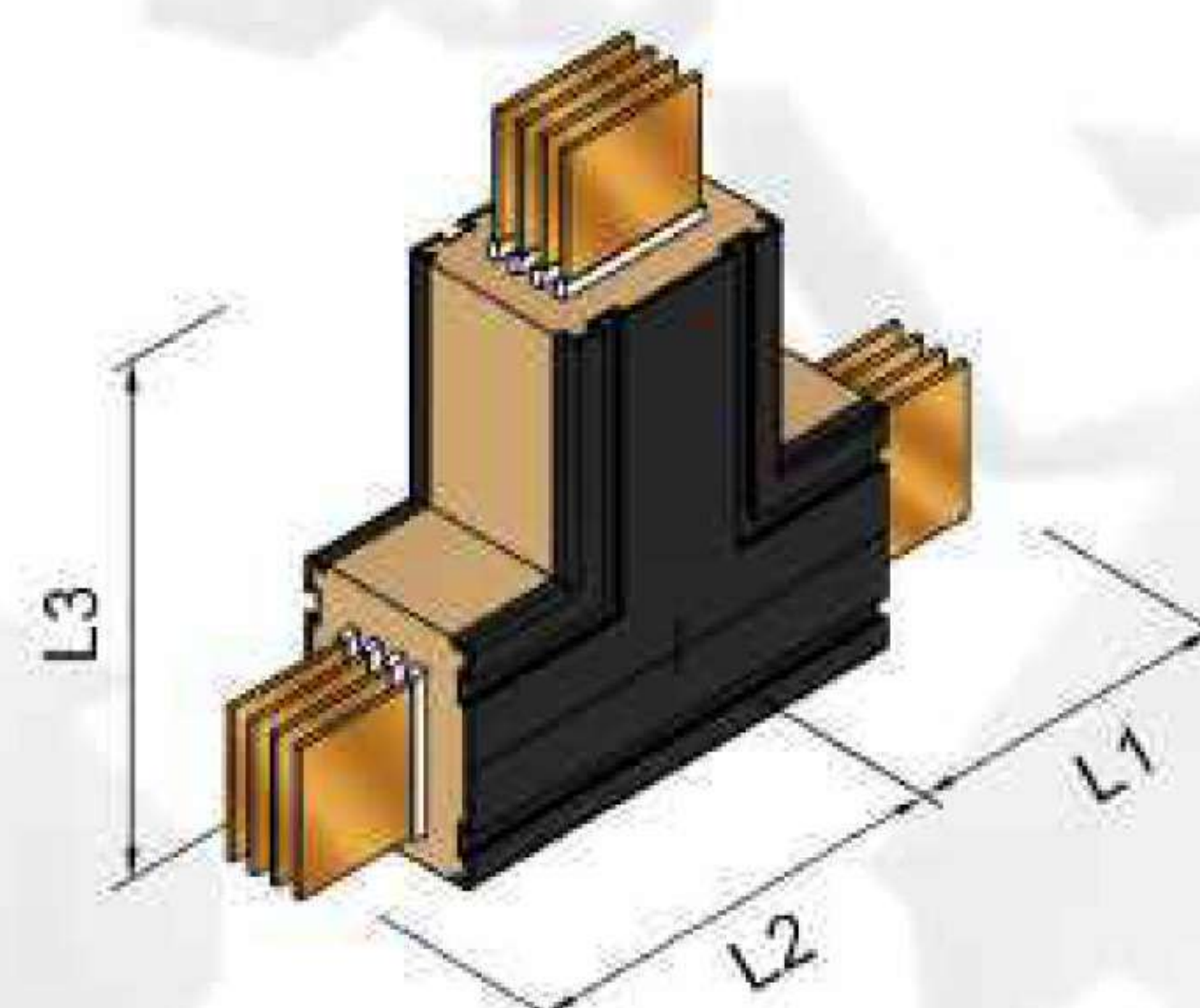
Expansion Unit

	Min	Max
L1	1000	1000



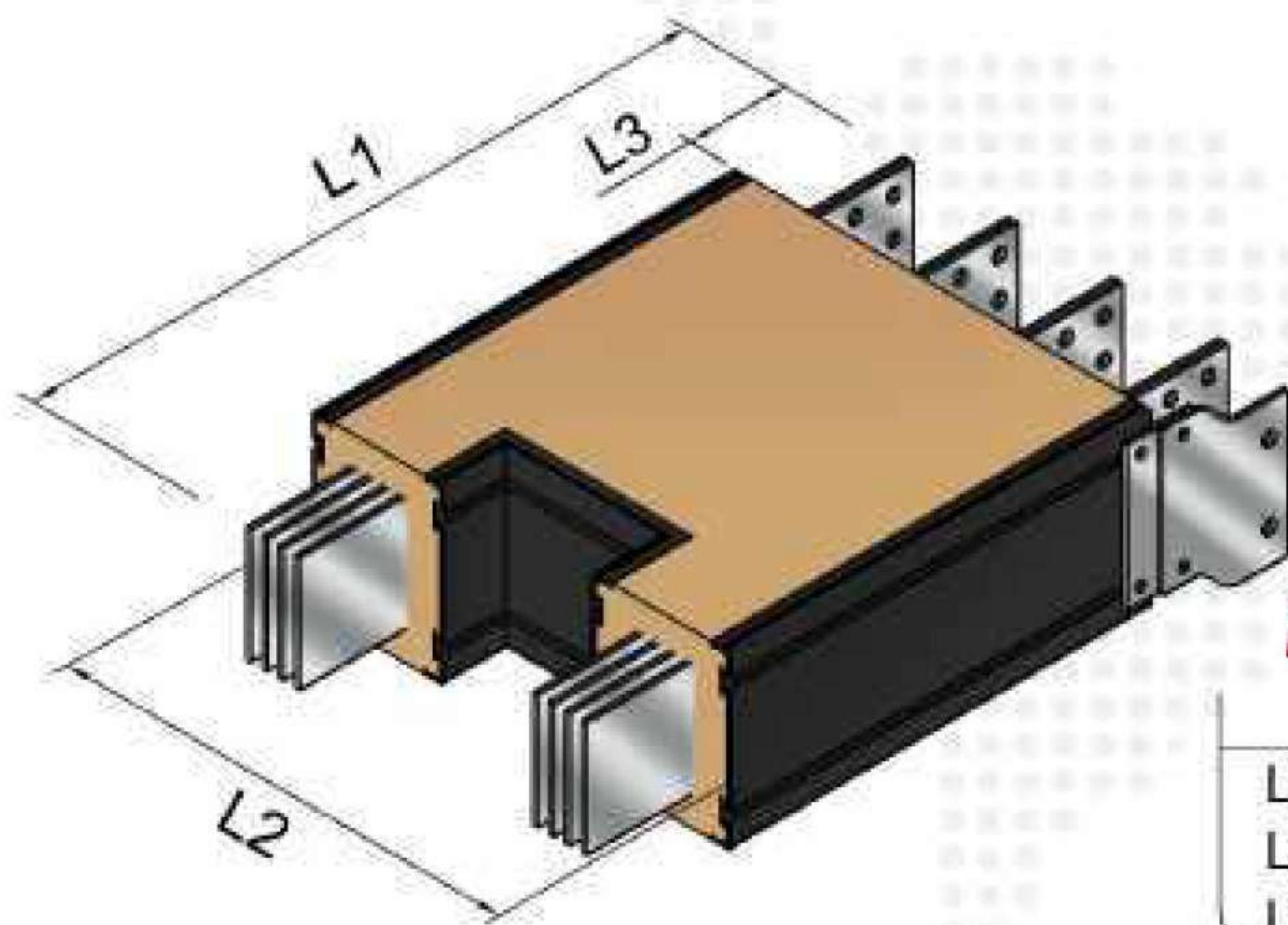
Edgewise Tee Elbow

	Min	Max
L1	500	500
L2	500	500
L3	500	500



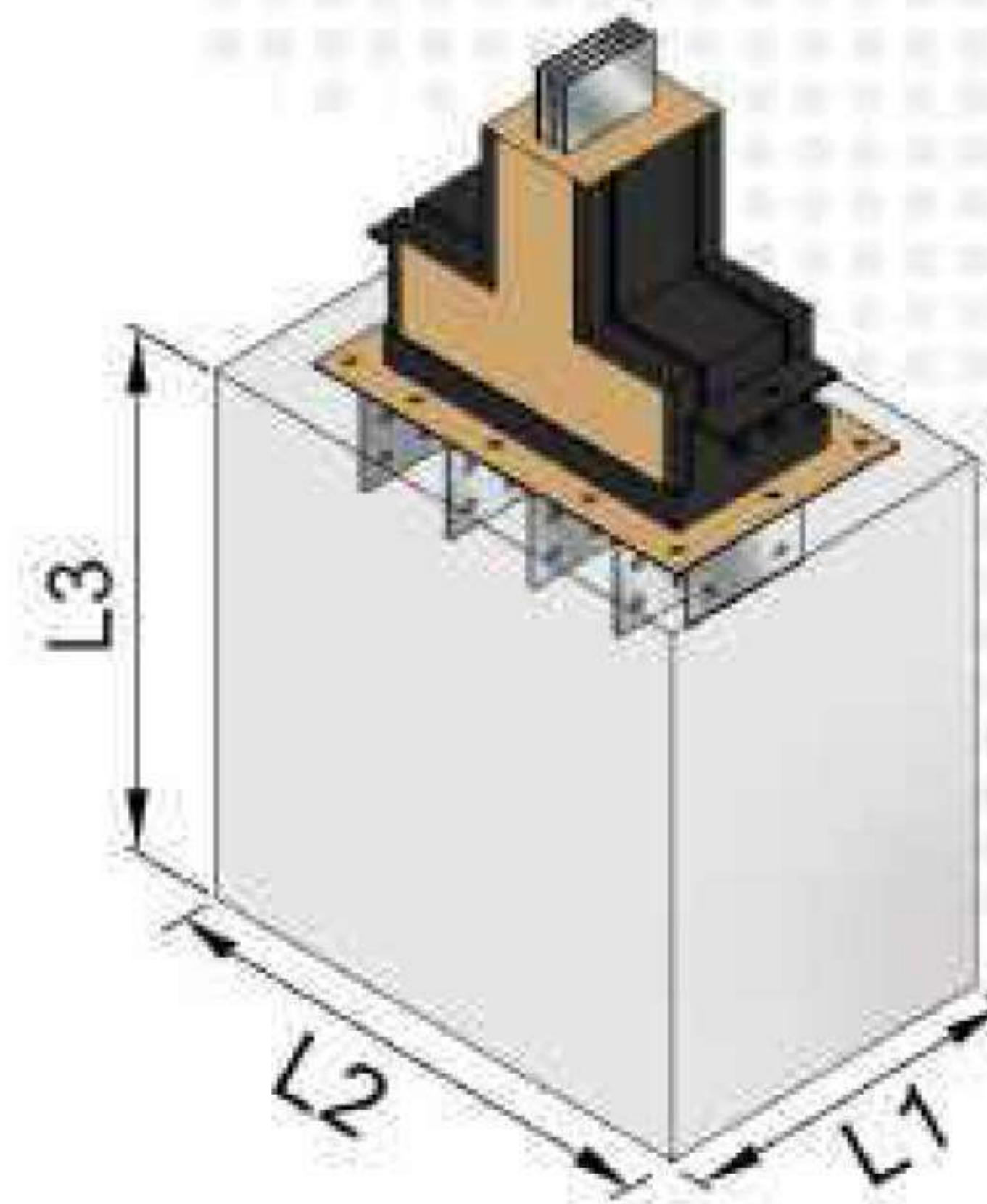
Flatwise Tee Elbow

	Min	Max
L1	300	350
L2	300	350
L3	300	350



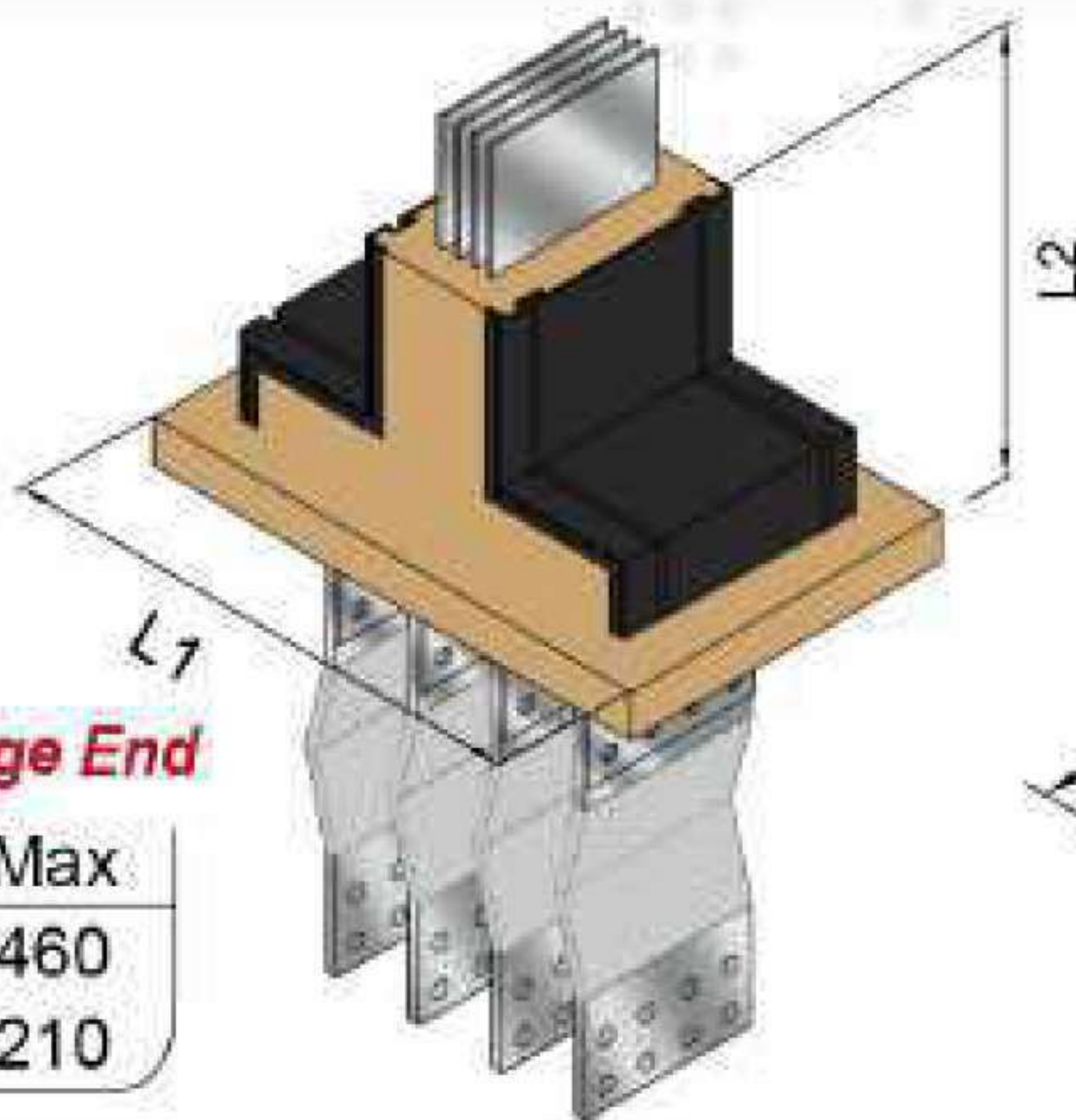
Flange End

	Min	Max
L1	700	700
L2	438	438
L3	130	130



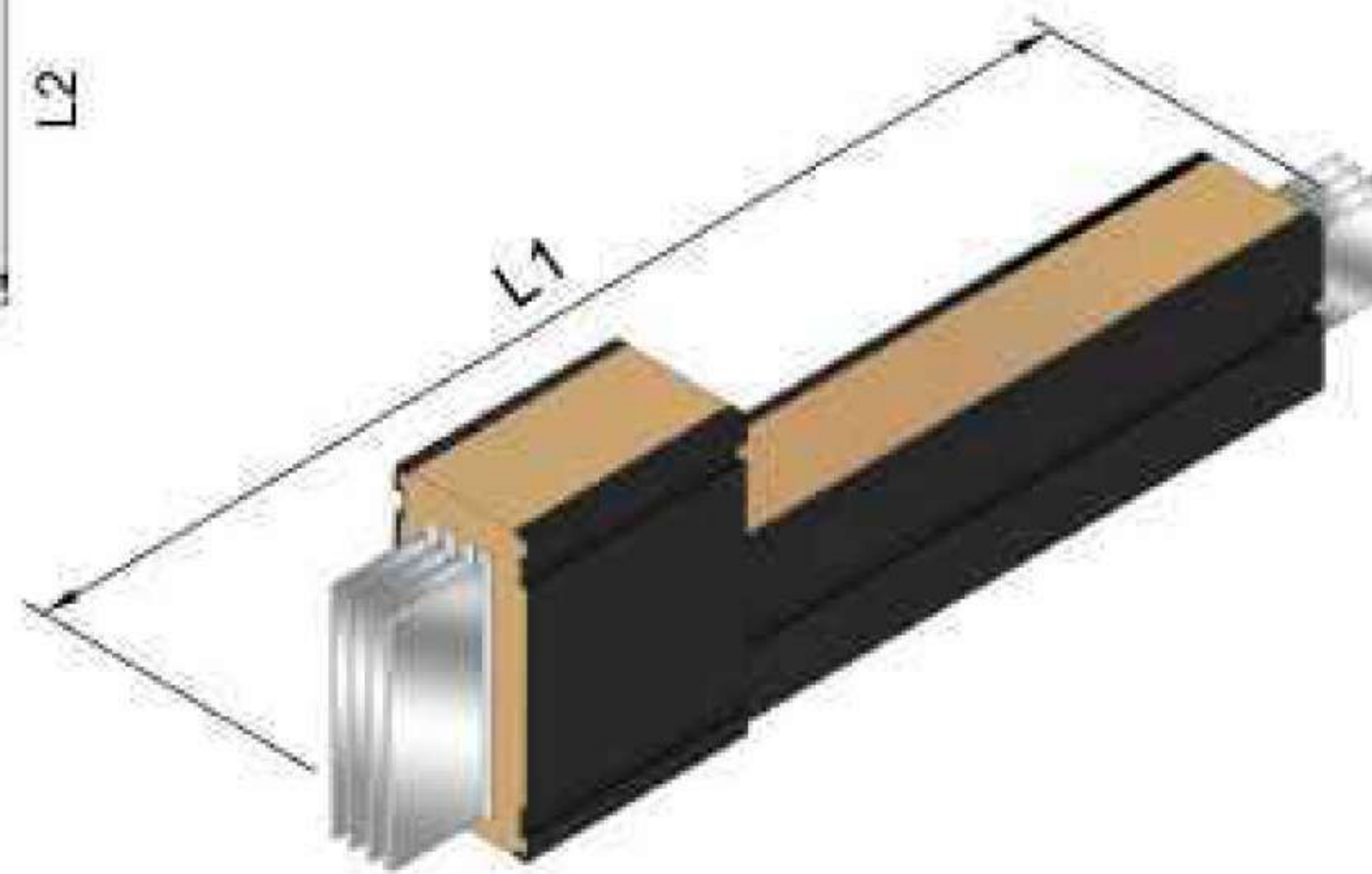
Flange End Box

	Min	Max
L1	300	600
L2	600	600
L3	500	710



Outdoor Flange End

	Min	Max
L1	460	460
L2	210	210

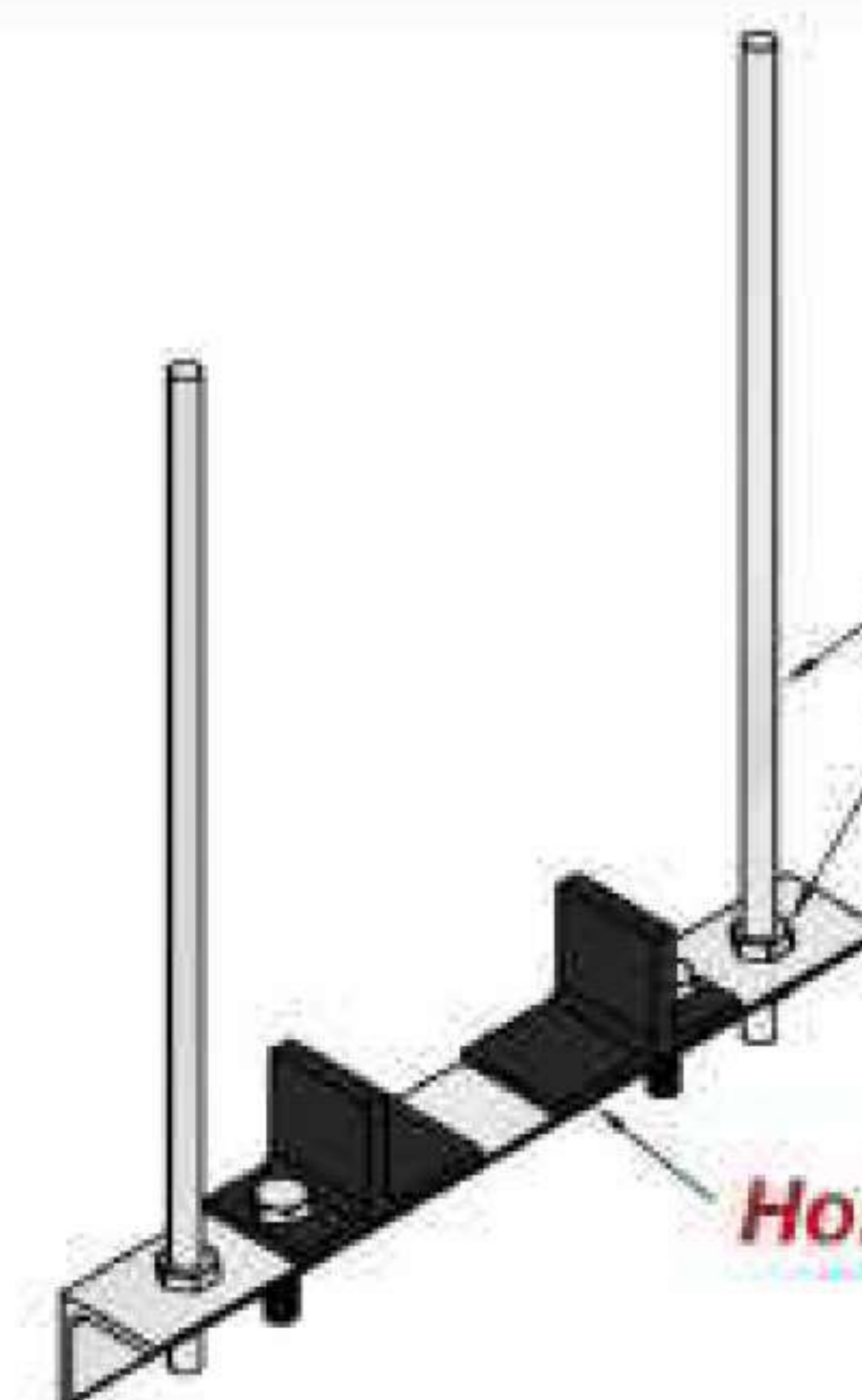
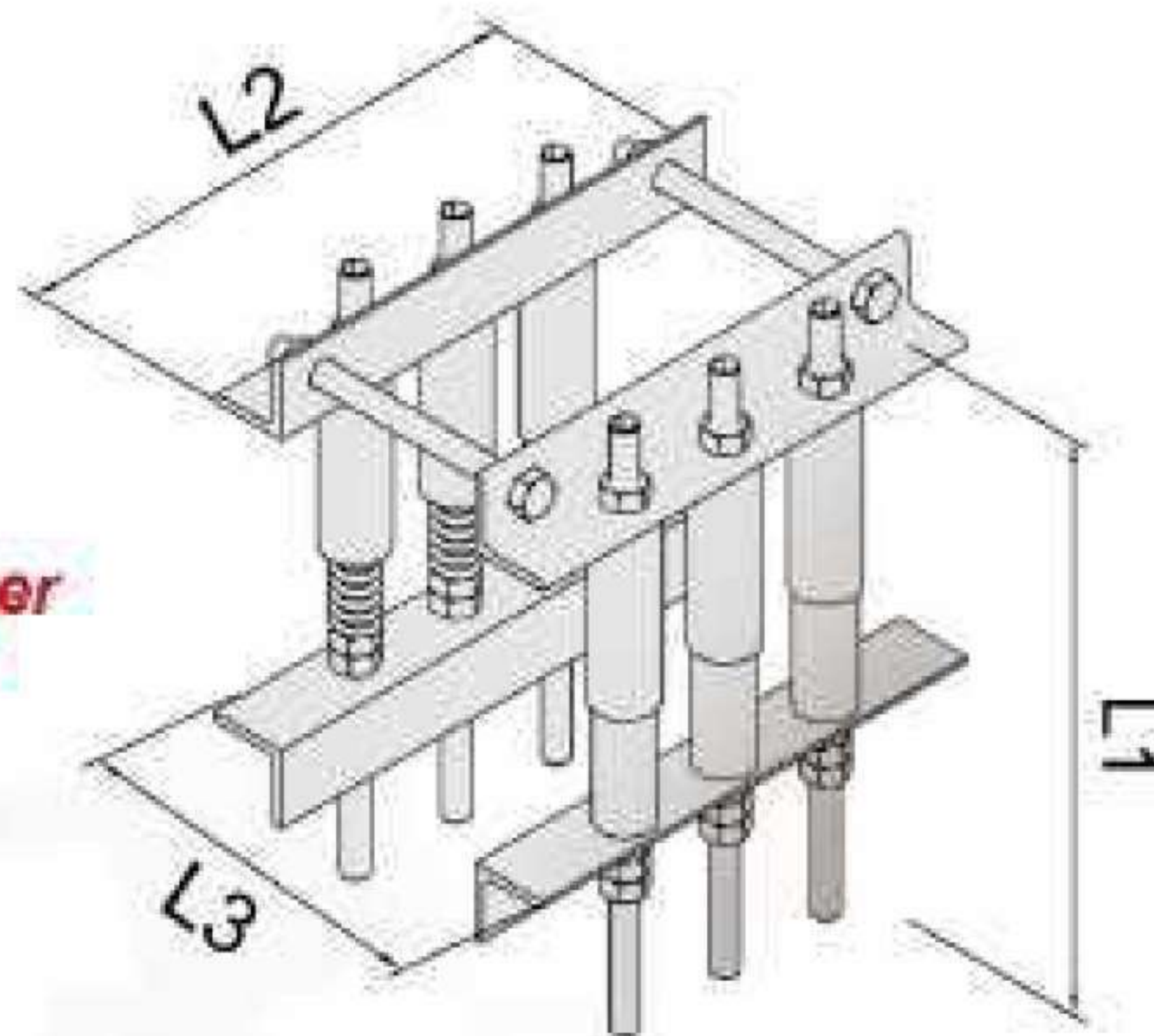


Reducer

	Min	Max
400A	1000	1000
600A	1000	1000
800A	1000	1000
1000A	1000	1000
1250A	1000	1000
1600A	1000	1000
1750A	1000	1000
2000A	1000	1000
2500A	1000	1000

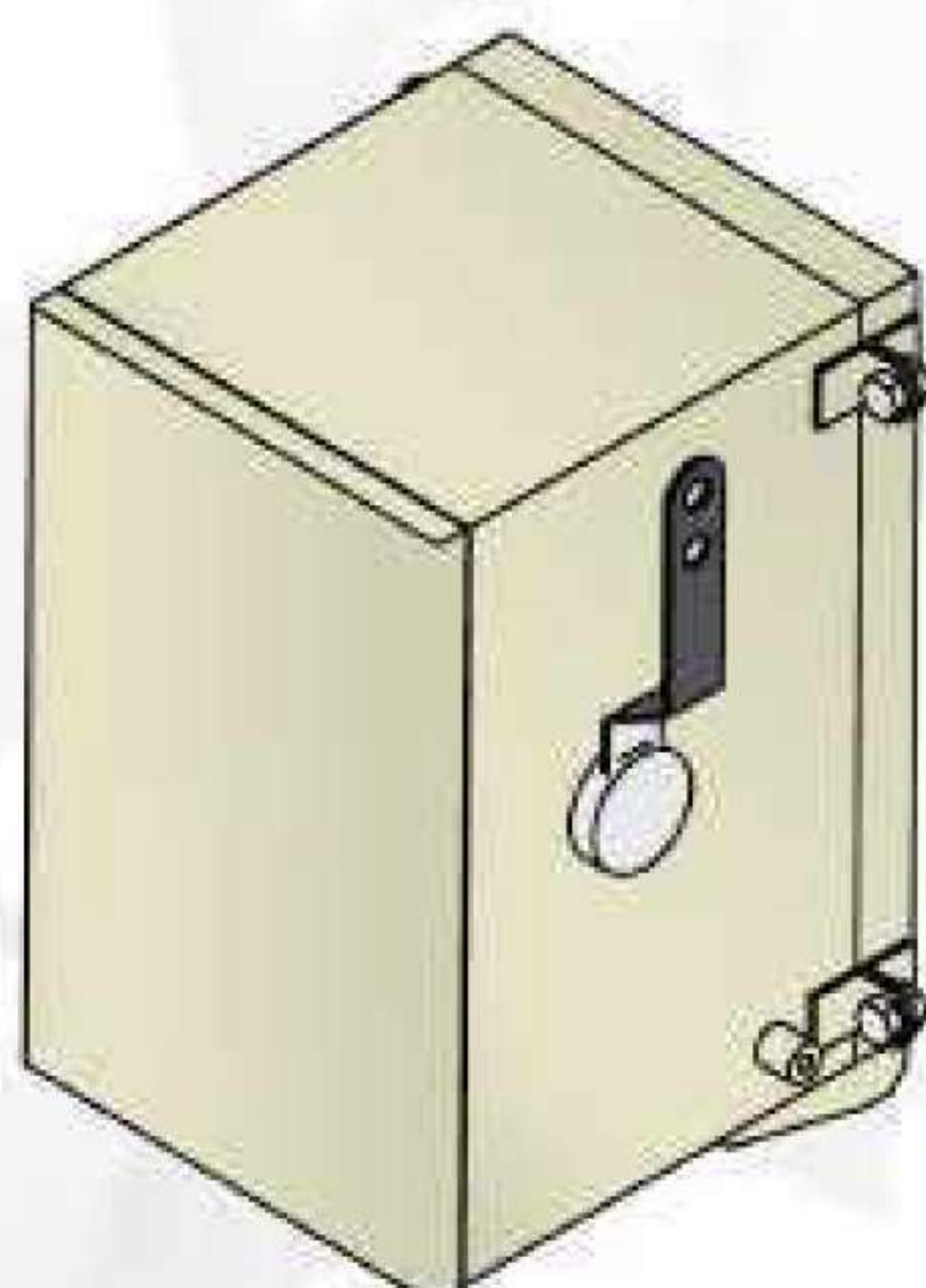
Vertical Spring Hanger

	Min	Max
L1	390	390
L2	185	365
L3	224	244



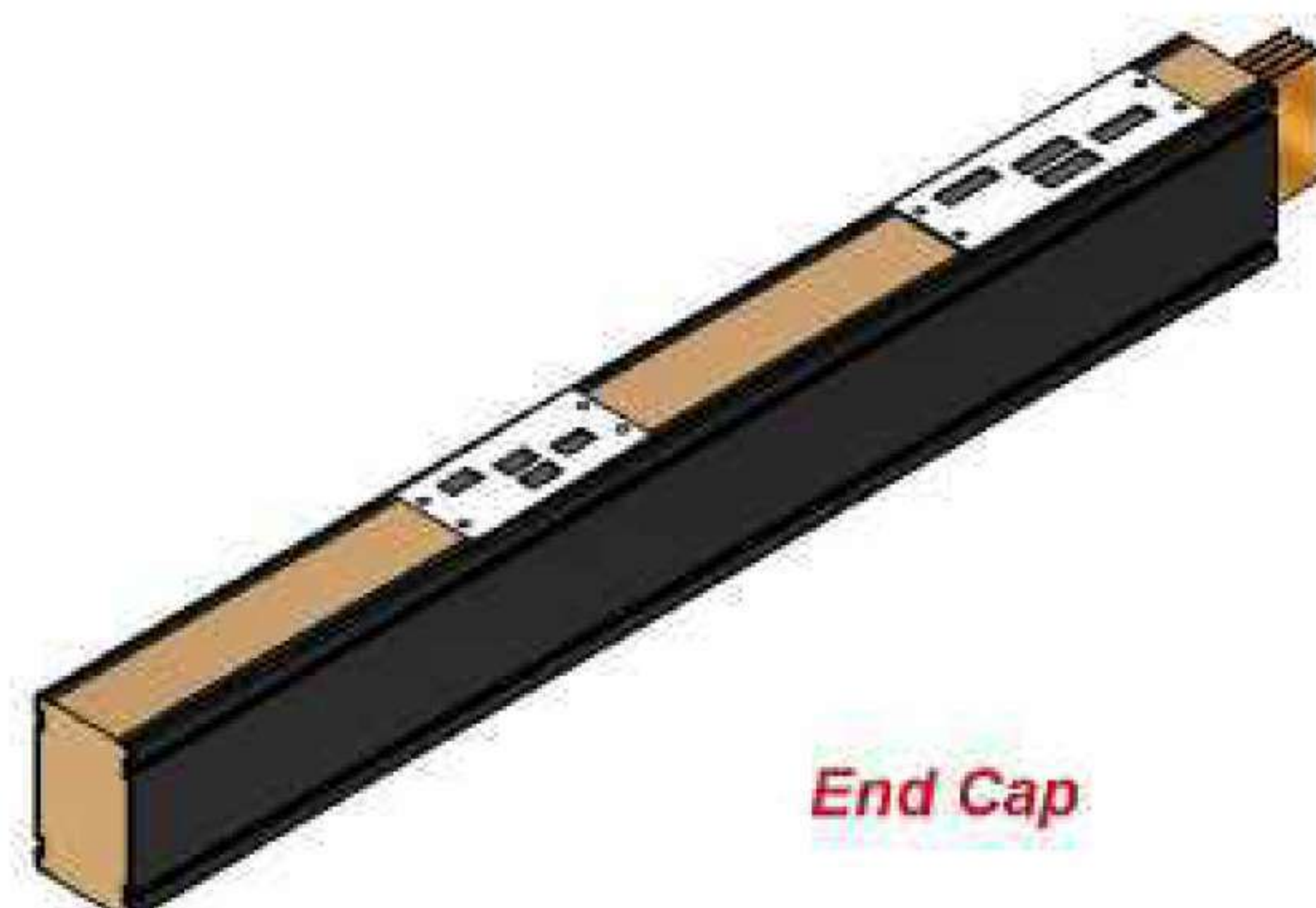
Angle Metal Bar & Hanger Rod (By Contractors)

Horizontal Hanger



Tap Off Unit

Rating	W	B	H
100AF/125AF	250	300	400
225AF/250AF	250	300	500
400AF	250	300	600
600AF/630AF	350	300	800
800AF	350	300	800
1000AF	TBD	TBD	TBD
1200/1600AF	TBD	TBD	TBD



End Cap

Catalogue Numbering System

LC

Busbar material:

LC=Low Voltage Copper Busduct
LA=Low Voltage Aluminum Busduct
MC=12KV Medium Voltage Busduct
HC=24KV Medium Voltage Busduct

400

Ampere Rating:

400=Single Duct 400A
630=Single Duct 630A
800=Single Duct 800A
1000=Single Duct 1000A
1250=Single Duct 1250A
1500=Single Duct 1500A
1600=Single Duct 1600A
1750=Single Duct 1750A
2000=Single Duct 2000A
2250=Single Duct 2250A
2500=Single Duct 2500A
2750=Single Duct 2750A
3000=Double Duct 3000A
3200=Double Duct 3200A
3500=Double Duct 3500A
4000=Double Duct 4000A
4500=Double Duct 4500A
5000=Double Duct 5000A
5500=Double Duct 5500A
6000=Triple Duct 6000A
6750=Triple Duct 6750A

3P

Configuration:

3P=3 Phase, 3 Wire c/w 100% external earth
3PG=3 Phase, 3 Wire c/w 50% integral earth bar
3PGF=3 Phase, 3 Wire c/w 100% integral earth bar
4P=3 Phase, 4 Wire c/w 100% external earth
4PG=3 Phase, 4 Wire c/w 50% integral earth bar
4PGF=3 Phase, 4 Wire c/w 100% integral earth bar

ST

ST=Straight Feeder
PL=Plug-In Feeder
BH=Edgewise Elbow
BV=Flatwise Elbow
ZH=Edgewise Offset Elbow
ZV=Flatwise Offset Elbow
FE=Flange End
FL=Outdoor Flange End
TH= Edgewise Tee Elbow
TV=Flatwise Tee Elbow
EX=Expansion Unit
TF=Reducer
JT=Joint
SH=Vertical Spring Hanger
NPL=End Cap
FEB=Flange End Box
PC = Phase Transposition

Technical Data-Low voltage

Series LC Copper Busduct - IEC.61439-6 60Hz 1000V

Type	3 - 5 cond	6 - 10 cond	9 -15 cond	In	In	Icc	Icc	Z	R	X	Total weight
	W x H	W x H	W x H	norm	60Hz	1sec	Ipeak				
	(mm)	(mm)	(mm)	(A)	(A)	(kA)	(kA)	uΩ	uΩ	uΩ	(kg/m)
Single Duct											
LC400	118 x 80			400	450	16	32	256.5	223.5	129.5	20.7
LC630	118 x 100			630	635	35	74	140.9	111.7	85.9	27.2
LC800	118 x 100			800	816	35	74	105.5	83.8	64.2	28.4
LC1000	138 x 120			1000	1120	50	105	73.5	55.8	48.2	35.8
LC1250	138 x 140			1250	1270	50	105	56.8	41.9	38.9	42.8
LC1500	138 x 180			1500	1500	65	143	44.6	30.4	33.9	50.3
LC1600	138 x 180			1600	1660	65	143	39.7	27.9	29.1	57.1
LC1750	138 x 180			1750	1770	65	143	35.6	22.3	27.8	68.8
LC2000	138 x 220			2000	2050	85	187	32.0	21.0	25.4	71.1
LC2250	138 x 220			2250	2261	85	187	27.5	17.3	22.9	78.3
LC2500	138 x 260			2500	2620	85	187	23.1	14.9	18.7	91.3
LC2750	138 x 260			2750	2770	85	187	22.0	13.4	17.5	103.2
Double Duct											
LC3000		438 x 180		3000	3000	105	231	22.2	15.2	16.8	100.6
LC3200		438 x 180		3200	3250	105	231	20.6	14.0	15.8	114.2
LC3500		438 x 180		3500	3500	105	231	18.5	11.2	14.7	137.6
LC4000		438 x 220		4000	4000	105	231	15.6	10.0	12.6	142.2
LC4500		438 x 220		4500	4500	105	231	14.7	8.7	11.9	156.6
LC5000		438 x 260		5000	5000	120	264	12.0	7.5	10.0	182.6
LC5500		438 x 260		5500	5500	120	264	11.7	6.7	9.6	206.4
Triple Duct											
LC6000			738 x 220	6000	6000	125	275	10.5	7.0	8.3	213.3
LC6750			738 x 220	6750	6750	125	275	9.5	5.7	7.6	234.9
LC7500			738 x 260	7500	7500	125	275	7.7	4.9	6.2	273.9

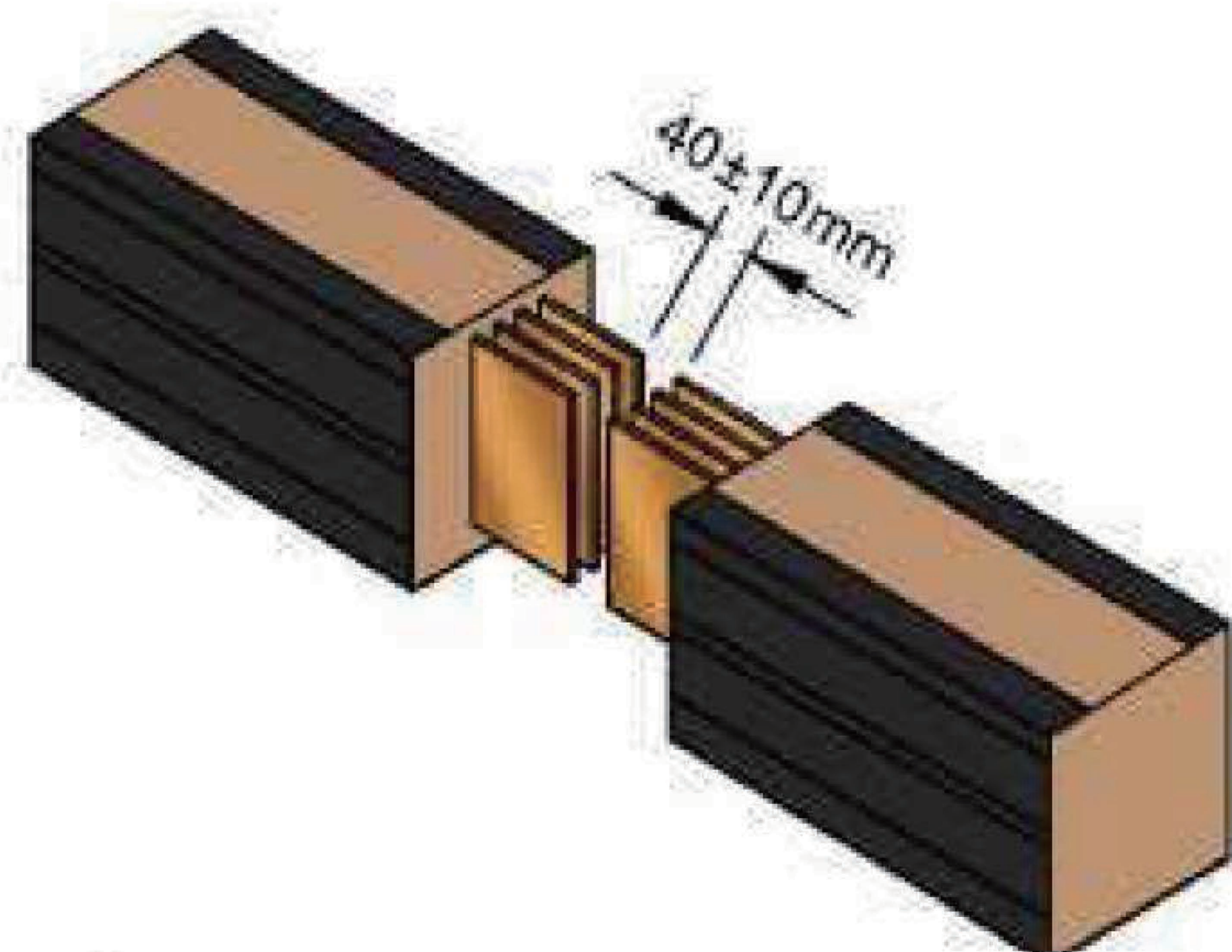
Technical Data-Low voltage

● Series LA Aluminum Busduct - IEC.61439-6 60Hz 1000V

Type	3 - 5 cond	6 - 10 cond	9 -15 cond	In	In	Icc	Icc	Z	R	X	Total weight
	W x H	W x H	W x H	norm	60Hz	1sec	Ipeak				
	(mm)	(mm)	(mm)	(A)	(A)	(kA)	(kA)	uΩ	uΩ	uΩ	(kg/m)
Single Duct											
LA400	98 x 80			400	450	16	32	232.0	215.5	85.9	16.2
LA630	98 x 100			630	635	16	32	125.5	107.8	64.2	20.4
LA800	98 x 120			800	816	35	74	86.5	71.8	48.2	24.7
LA1000	98 x 140			1000	1120	35	74	66.5	53.9	38.9	28.9
LA1350	98 x 180			1350	1350	40	84	49.4	35.9	33.9	37.4
LA1500	98 x 210			1500	1520	53	111.3	40.9	28.7	29.1	43.7
LA1600	98 x 220			1600	1660	53	111.3	37.0	26.9	25.4	45.9
LA1750	98 x 240			1750	1750	53	111.3	34.0	23.9	24.1	50.1
LA2000	98 x 260			2000	2050	67	143	31.4	21.6	22.9	54.3
LA2250	98 x 260			2250	2261	67	143	25.9	17.9	18.7	54.9
LA2500	98 x 335			2500	2500	80	176	21.4	15.6	14.6	70.2
Double Duct											
LA3000		358 x 210		3000	3000	90	198	22.1	14.3	16.8	87.4
LA3200		358 x 220		3200	3250	100	220	20.8	13.4	15.8	91.8
LA4000		358 x 260		4000	4000	120	264	16.6	10.7	12.6	108.6
LA5000		358 x 335		5000	5000	130	286	12.7	7.8	10.0	140.4
Triple Duct											
LA6000			618 x 260	6000	6000	130	286	11.0	7.1	8.3	162.9

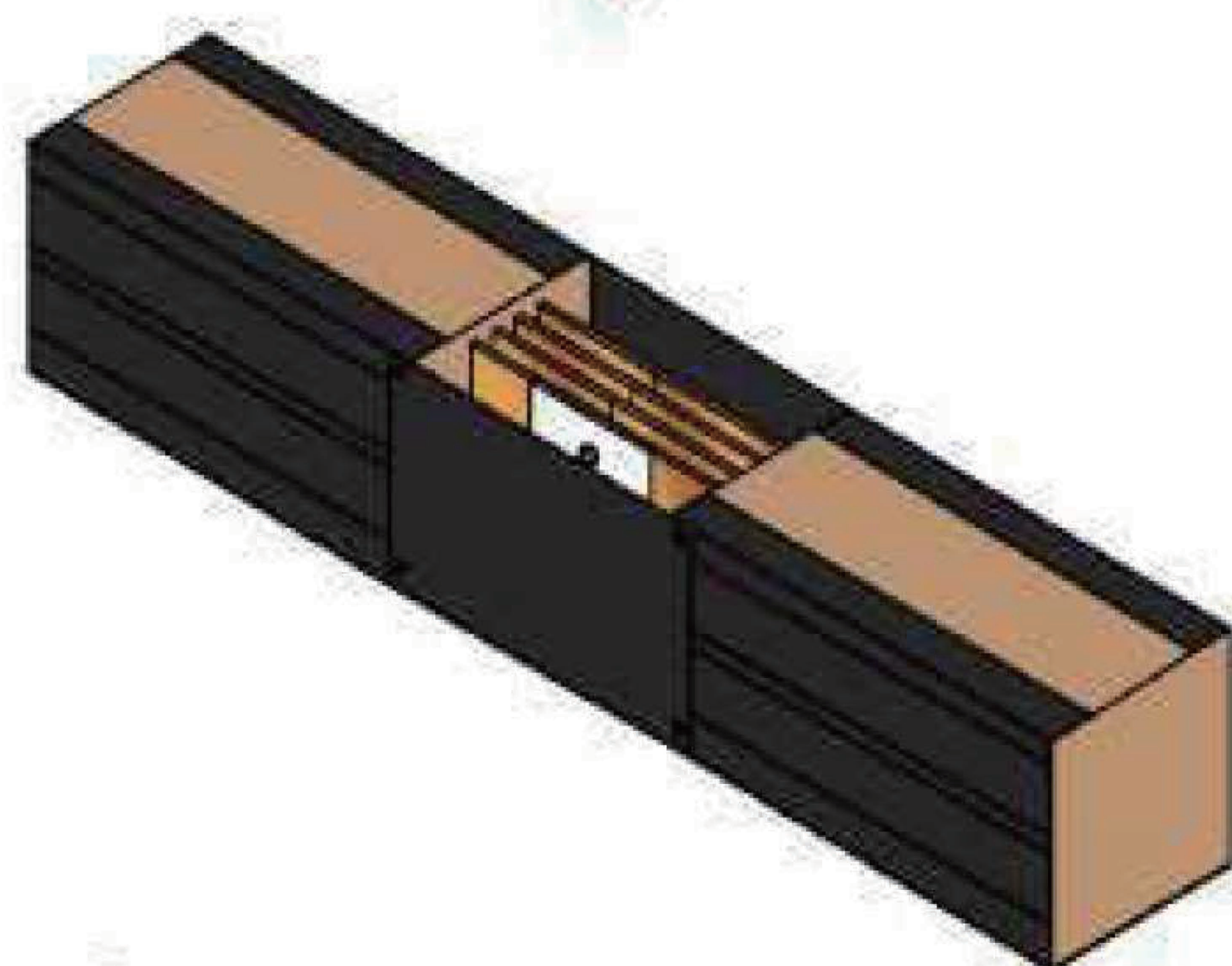
Installation instruction

Flatwise Joint Installation pictures:



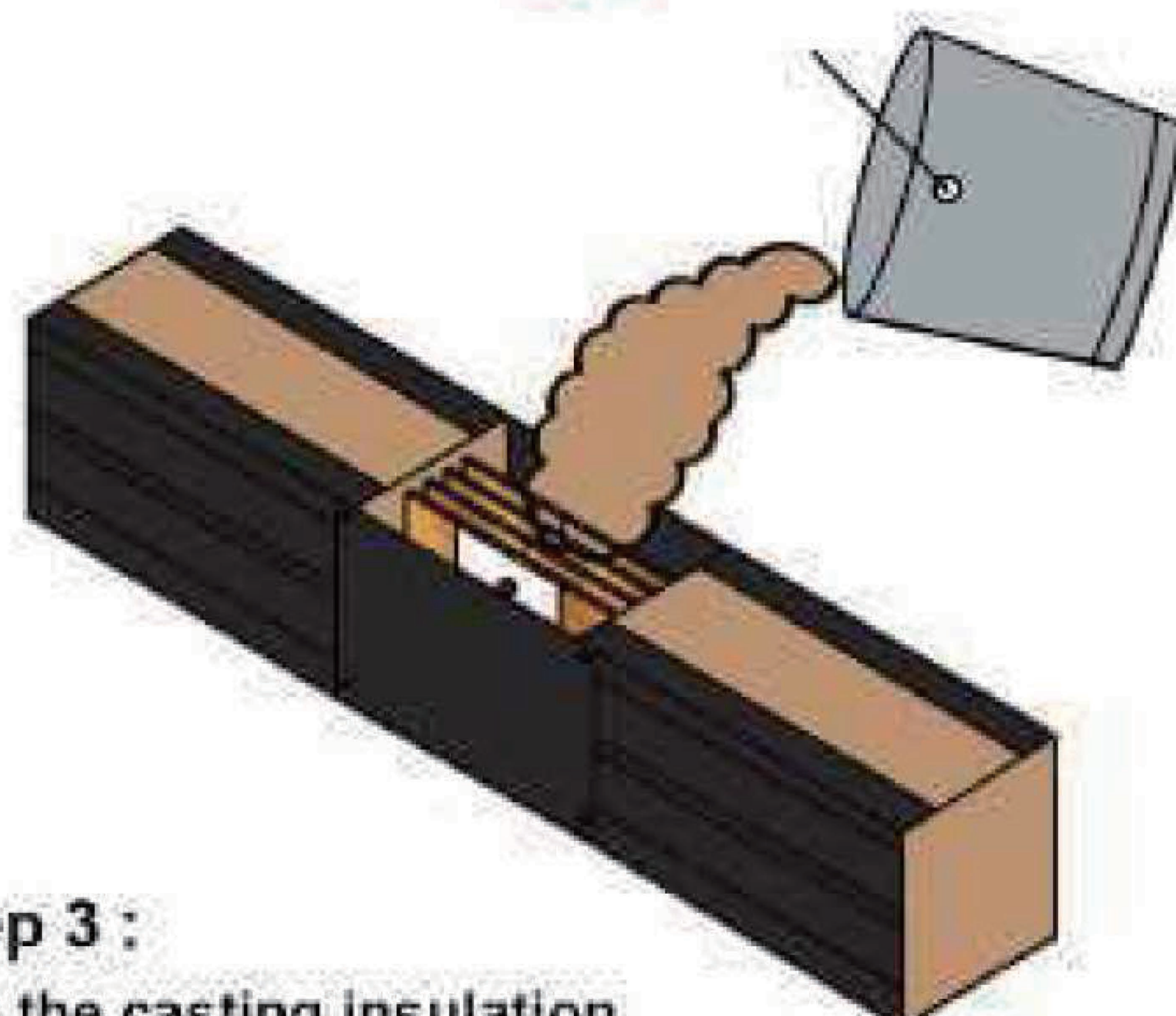
Step 1 :

Locate the busduct feeders to be connected at job site. As-built drawing is referred at all time.



Step 2 :

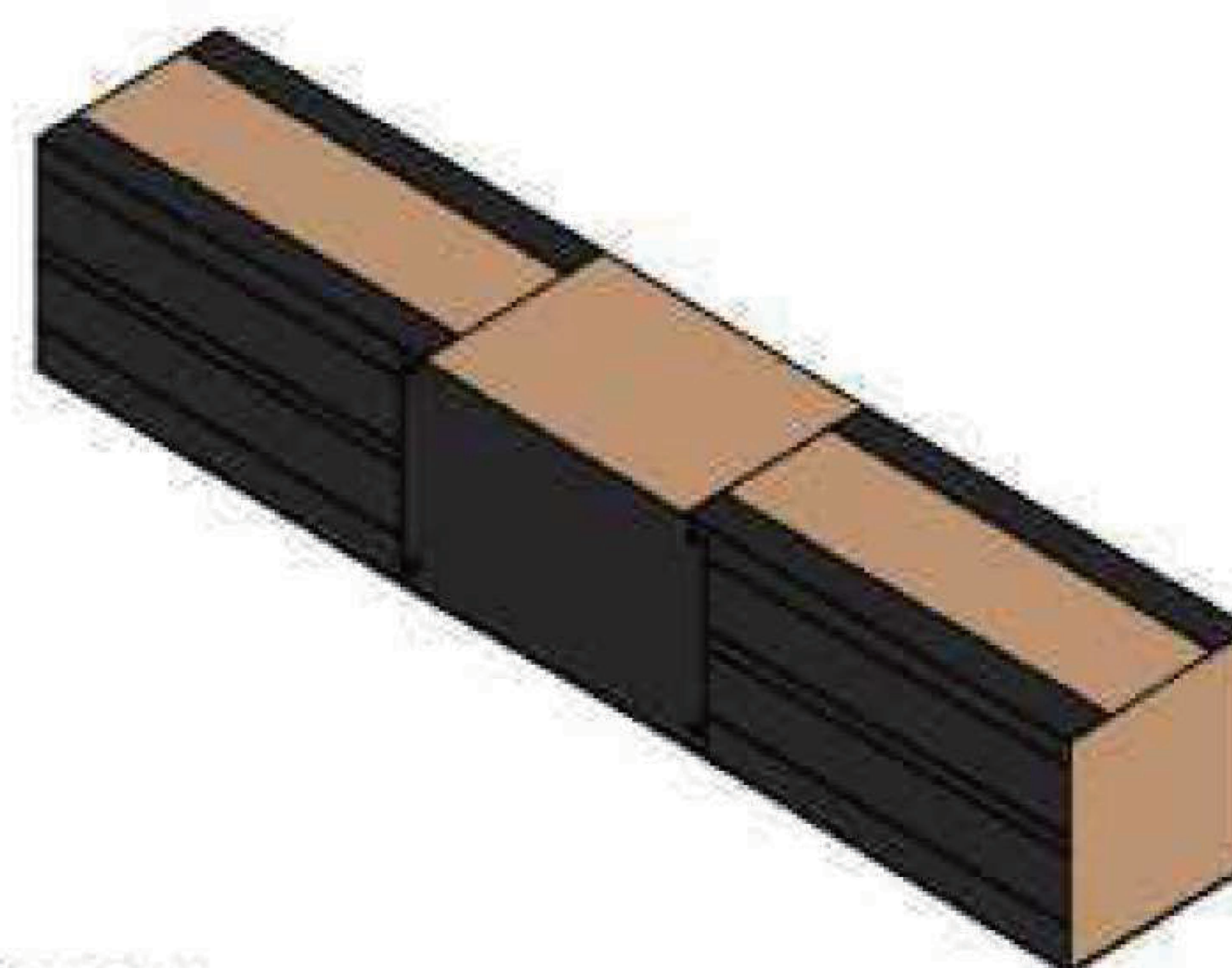
Connect both ends of busduct feeder by means of the joint stack and joint bolt. Afterwards, install the joint junction box to the connected busduct feeders.



Step 3 :

Mix the casting insulation material and fully fill up the joint section.

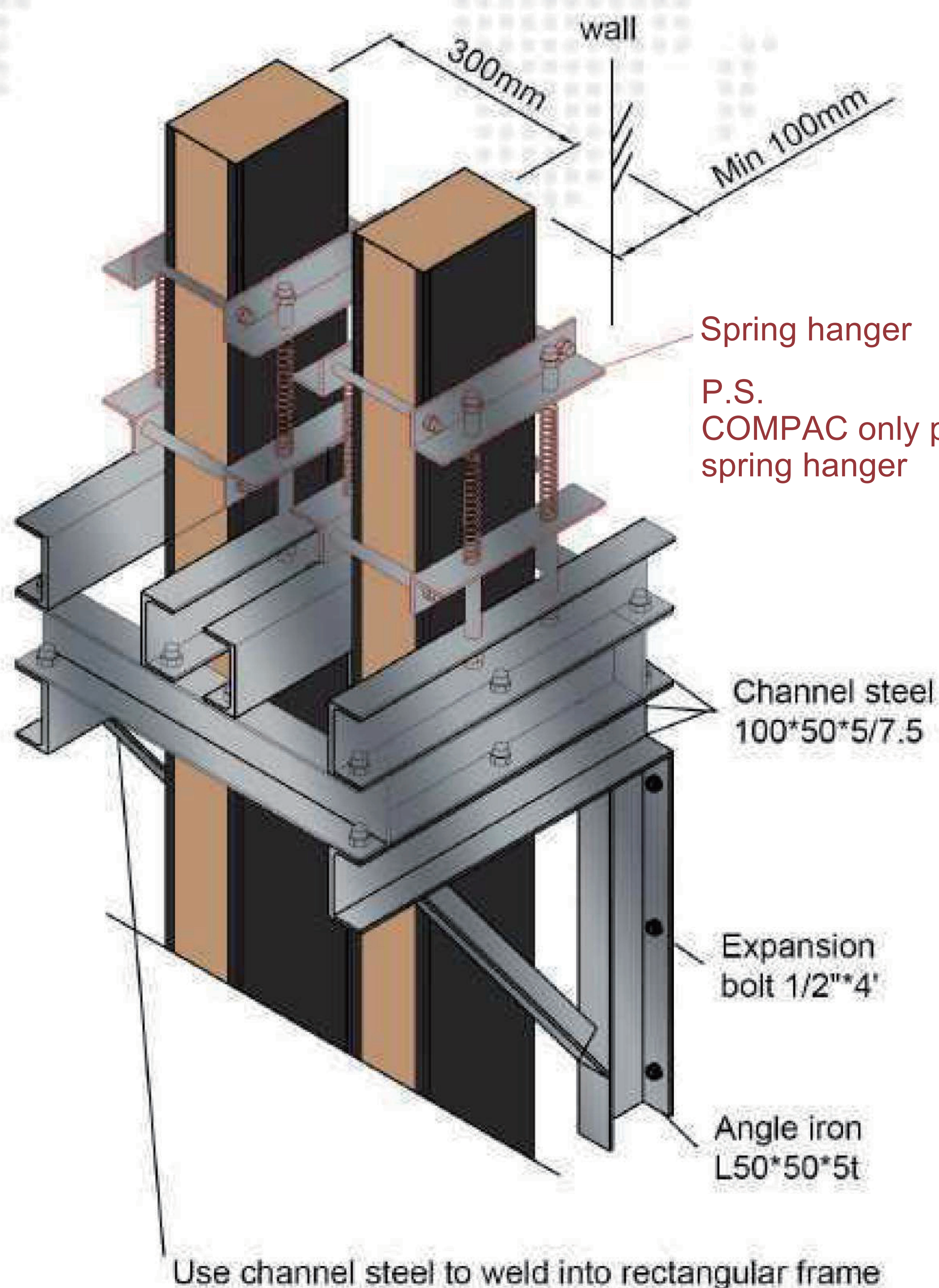
Note:
Connection resistance test, insulation resistance test and phase sequence test are recommended before pouring the casting insulation into the joint section.



Step 4 :

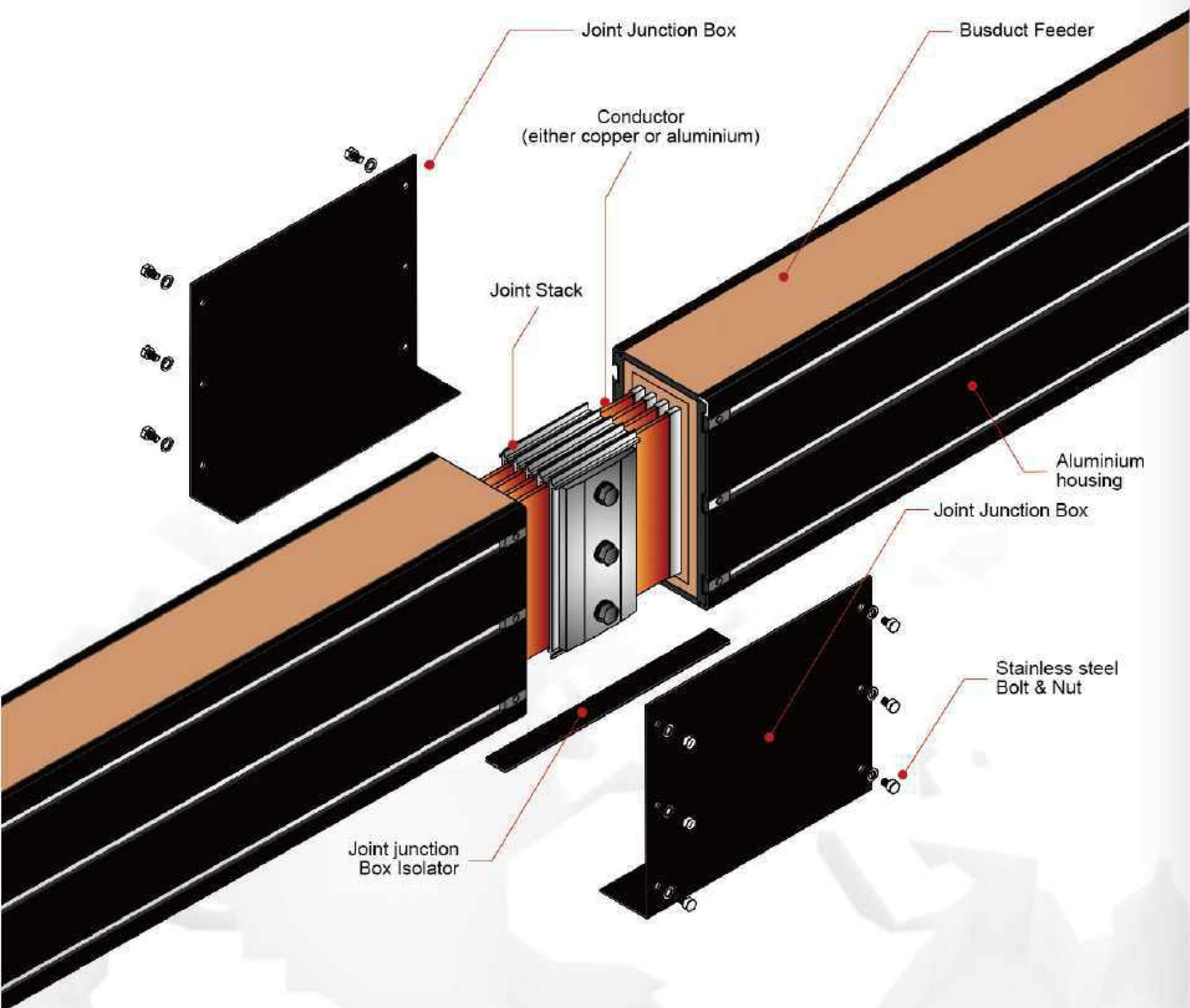
Before the curing process, clear the bubble on the surface of the casting insulation.

Note:
Curing process will usually take 4-6 hours.



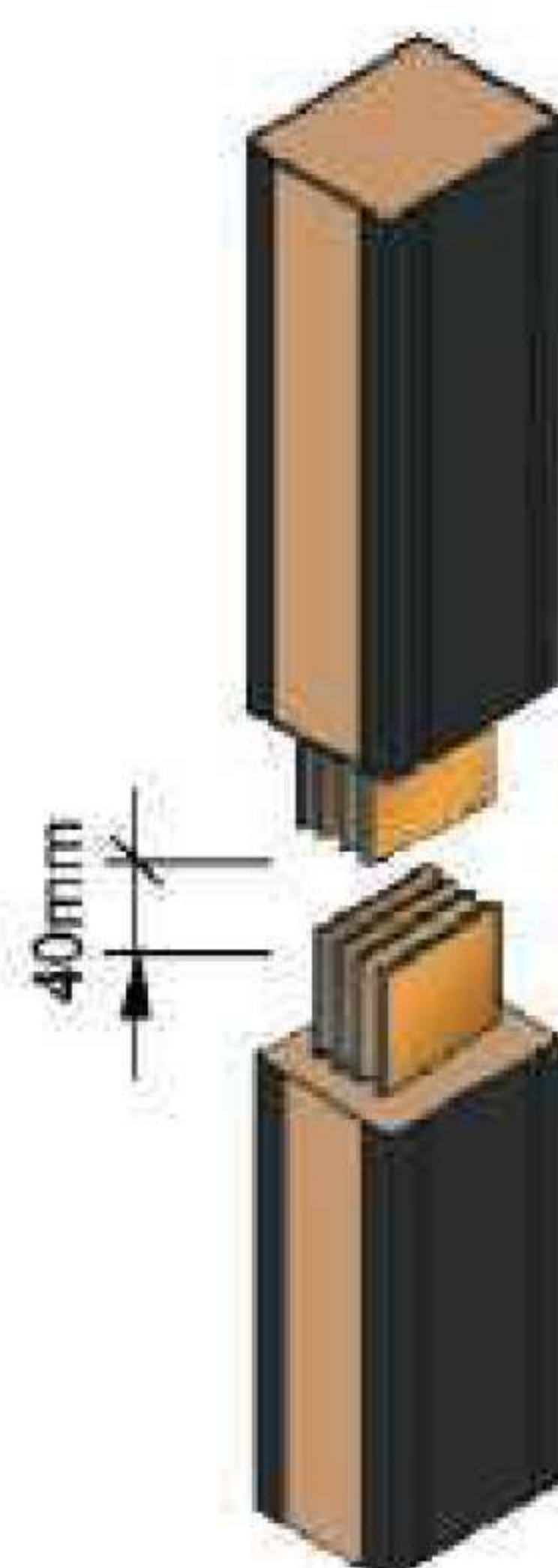
Installation Guideline

Busduct Joint Section



Installation Guideline

Busduct Joint Section (Vertically - Installed)



Step 1 :

Locate the busduct feeders to be connected at job site. As-built drawing is referred at all time.

Note:

Distance between both busduct feeders is $40\text{mm} \pm 10\text{mm}$.

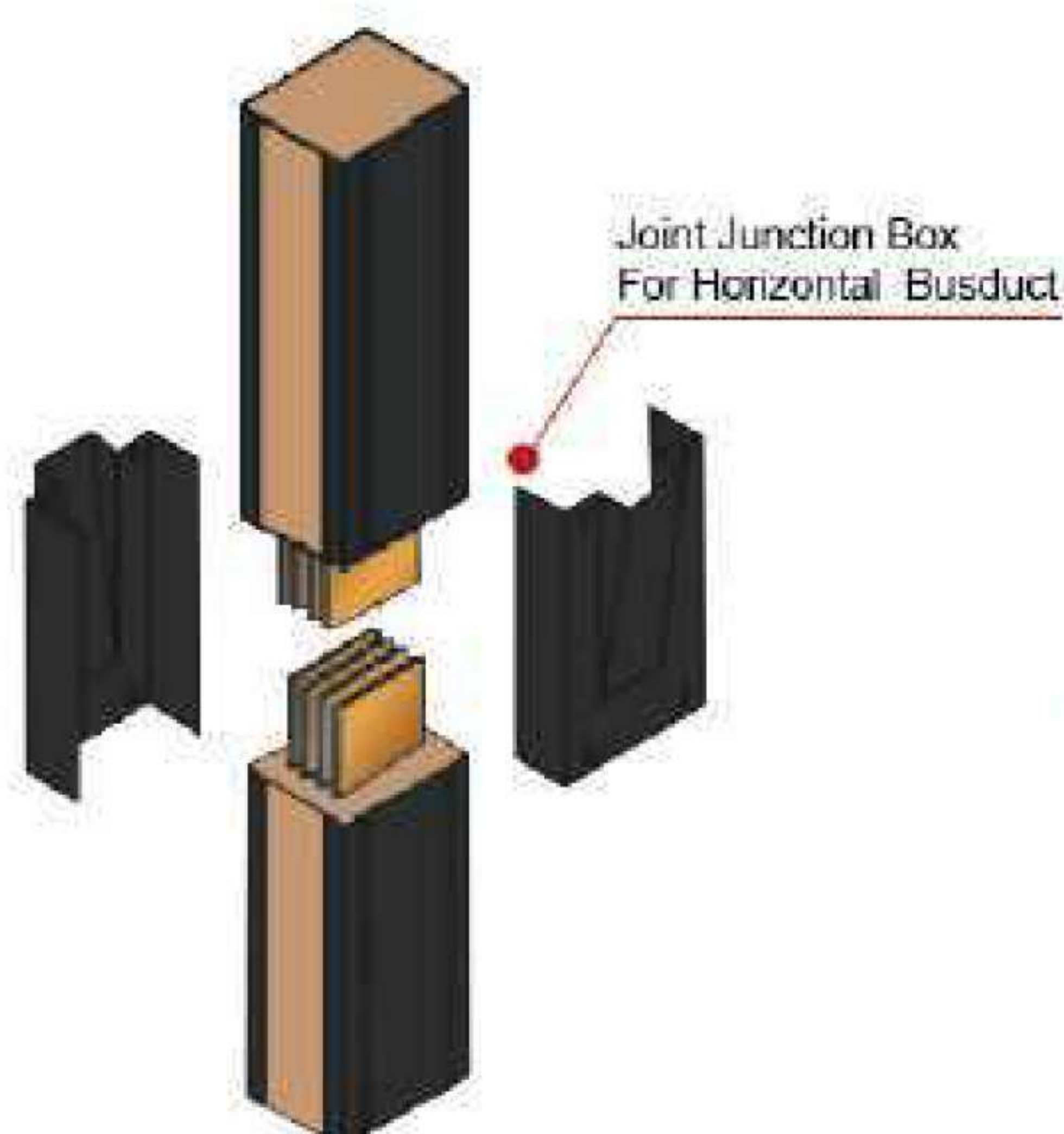


Step 4 :

Before the curing process, clear the bubble on the surface of the casting insulation.

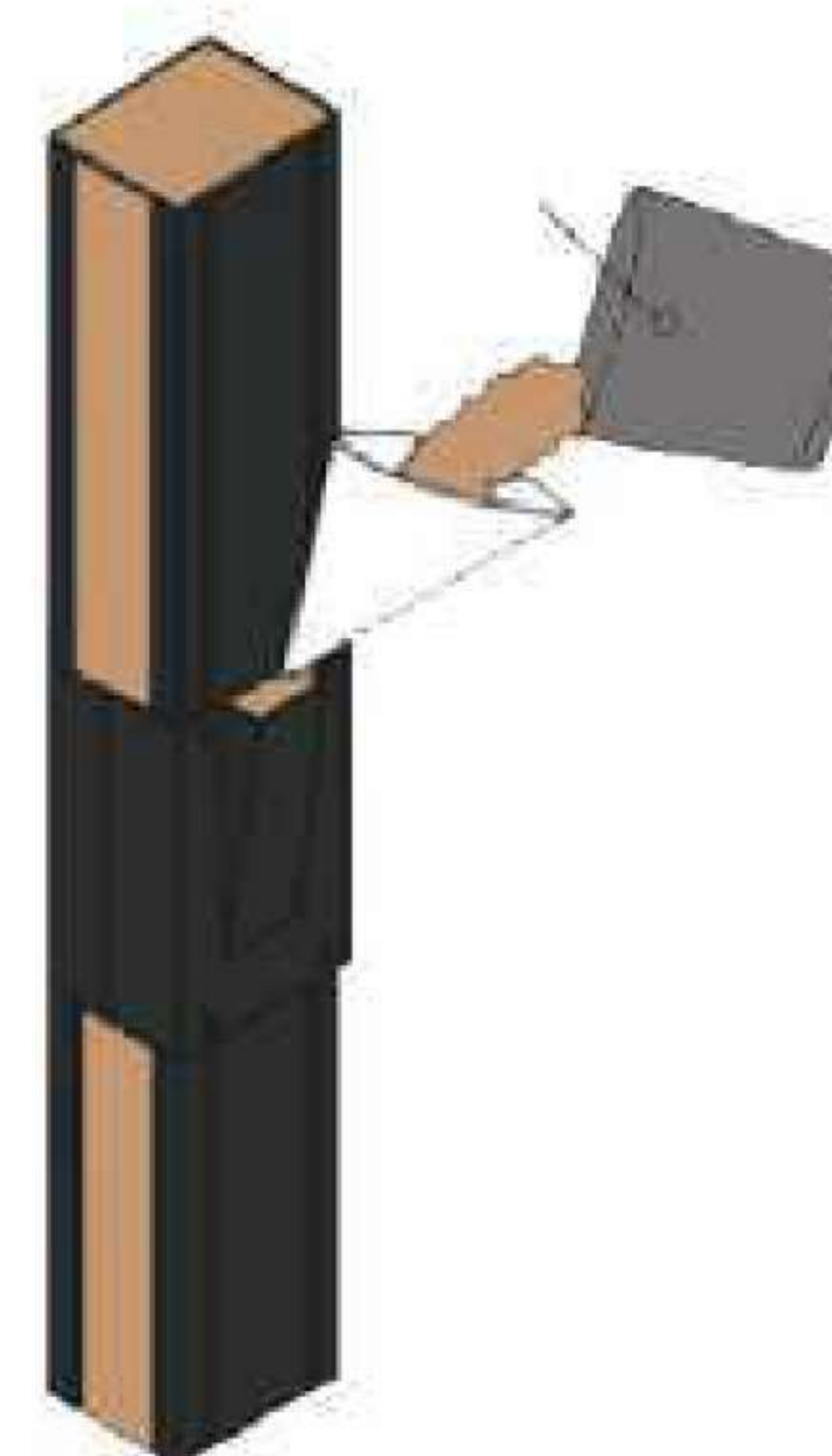
Note:

Curing process will usually take 4-6 hours.



Step 2 :

Connect both ends of busduct feeder by means of the joint stack and joint bolt. Afterwards, install the joint junction box to the connected busduct feeders.



Step 3 :

Mix the casting insulation material and fully fill up the joint section.

Note:

Connection resistance test, insulation resistance test and phase sequence test are recommended before pouring the casting insulation into the joint section.

Your Idea System!



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