

COMPAC
ELECTRIC

Medium Voltage Busway

World View
Top Quality
Innovation



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 Busduct 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 busduct 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 system awarded Green Mark, Environmentally preferable Product, by Official Organization.



● **EMF Compliance**

Besides 100% Earthing purpose, aluminum housing also encapsulates EMF inside Busduct itself. COMPAC cast resin busbar system 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 system 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.



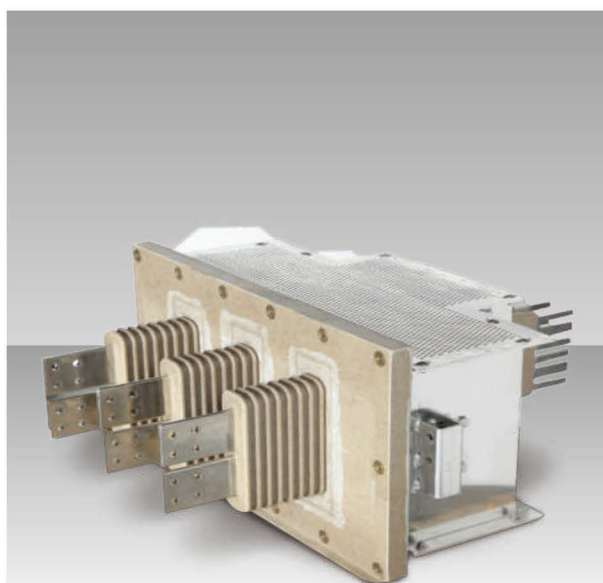
● **Chemical Resistance**

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.

Technical Data-Medium Voltage

● Series MC 12KV - IEC.62271-200 50/60Hz

Type	3 cond			In	Icc	Icc	R20	R80	X	Total weight
	W x H			norm	1sec	Ipeak				
	(mm)			(A)	(kA)	(kA)	uΩ	uΩ	uΩ	(kg/m)
Single Duct										
MC630	360 x 234			630	35	74	98.2	143.4	197.11	62
MC800	360 x 234			800	35	74	73.65	107.55	147.31	69
MC1000	400 x 274			1000	50	105	49.1	71.7	110.6	79.0
MC1250	400 x 294			1250	50	105	36.8	53.8	94.6	89.0
MC1500	400 x 334			1500	65	143	26.8	39.1	77.6	100.5
MC1600	400 x 334			1600	65	143	24.6	35.8	73.2	109.5
MC1750	400 x 334			1750	65	143	19.7	28.7	72.2	119.8
MC2000	400 x 374			2000	85	187	18.4	26.9	59.7	129.8
MC2250	400 x 290			2250	85	187	14.7	21.5	58.9	143.1
MC2500	400 x 414			2500	85	187	13.1	19.1	53.9	147.8
MC3000	400 x 424			3000	105	231	11.8	17.2	49.4	158.2
MC3200	400 x 424			3200	105	231	9.8	14.3	51.3	168.5
MC4000	400 x 434			4000	105	231	6.6	9.6	51.6	178.8
MC5000	400 x 434			5000	120	264	5.5	8.0	49.9	223.5



Technical Data-Medium Voltage

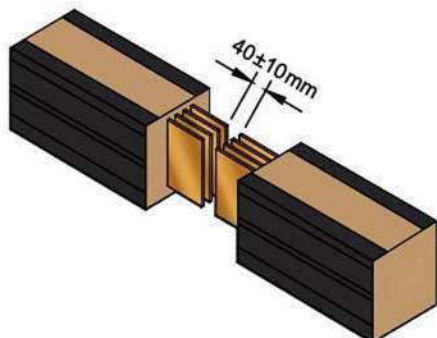
● Series HC 24KV - IEC.62271-200 50/60Hz

Type	3 cond			In	Icc	Icc	R20	R100	X	Total weight
	W x H			norm	1sec	Ipeak				
	(mm)			(A)	(kA)	(kA)	uΩ	uΩ	uΩ	(kg/m)
Single Duct										
HC1000	650 x 314			1000	50	105	60.5	79.6	171.1	119.7
HC1250	650 x 354			1250	50	105	48.7	64.0	143.4	152.4
HC1500	650 x 394			1500	65	143	36.8	48.4	123.6	185.9
HC1600	650 x 394			1600	65	143	30.8	40.5	118.1	185.9
HC1750	650 x 394			1750	65	143	30.8	40.5	116.8	188.3
HC2000	650 x 434			2000	85	187	23.2	30.5	100.6	219.4
HC2250	650 x 434			2250	85	187	20.7	27.2	99.5	222.6
HC2500	650 x 464			2500	85	187	18.6	24.5	92.7	248.4
HC3000	650 x 464			3000	105	231	18.4	24.2	86.5	261.0
HC3200	650 x 464			3200	105	231	15.4	20.2	87.0	261.0
HC4000	650 x 464			4000	105	231	11.6	15.3	90.1	267.8
HC5000	650 x 464			5000	120	264	9.3	12.3	87.8	287.1



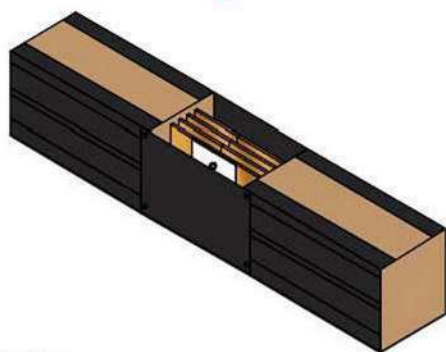
Installation Instruction

Flatwise Joint Installation pictures:



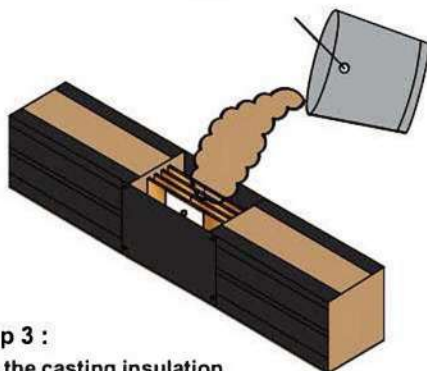
Step 1 :

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.

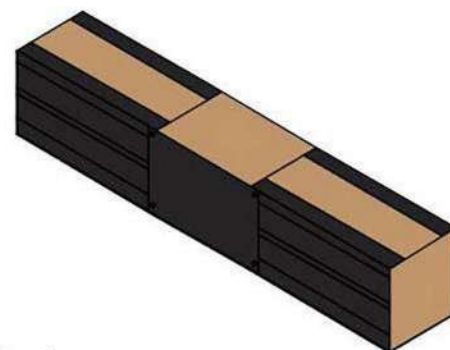


Step 3 :

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.

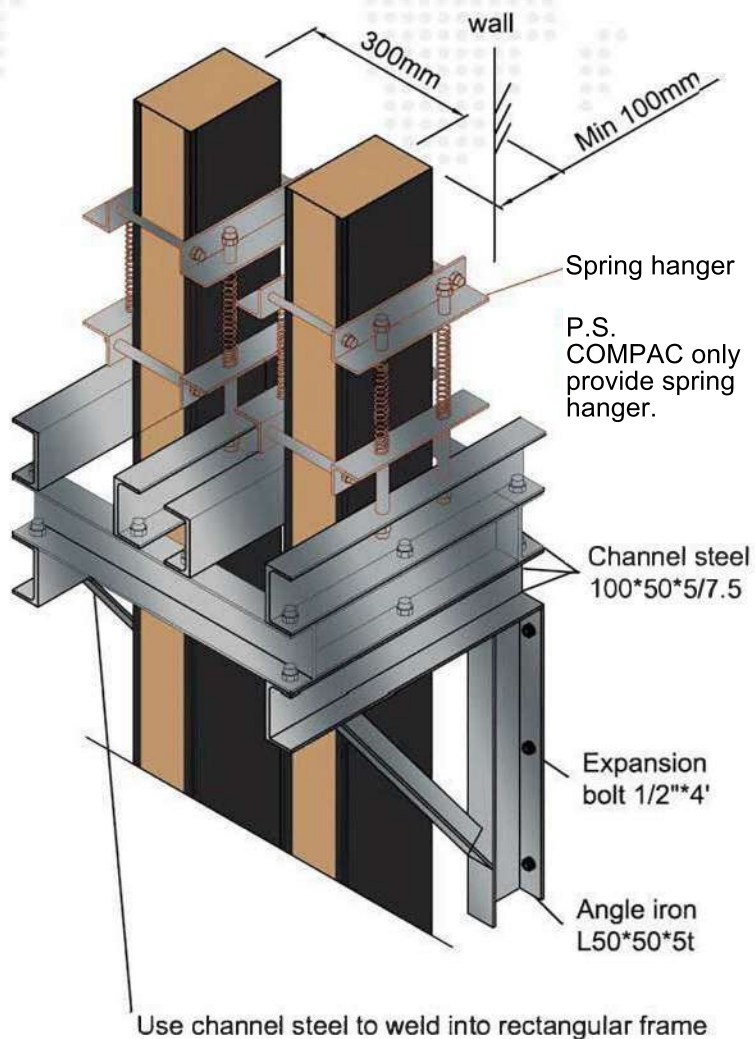


Step 4 :

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

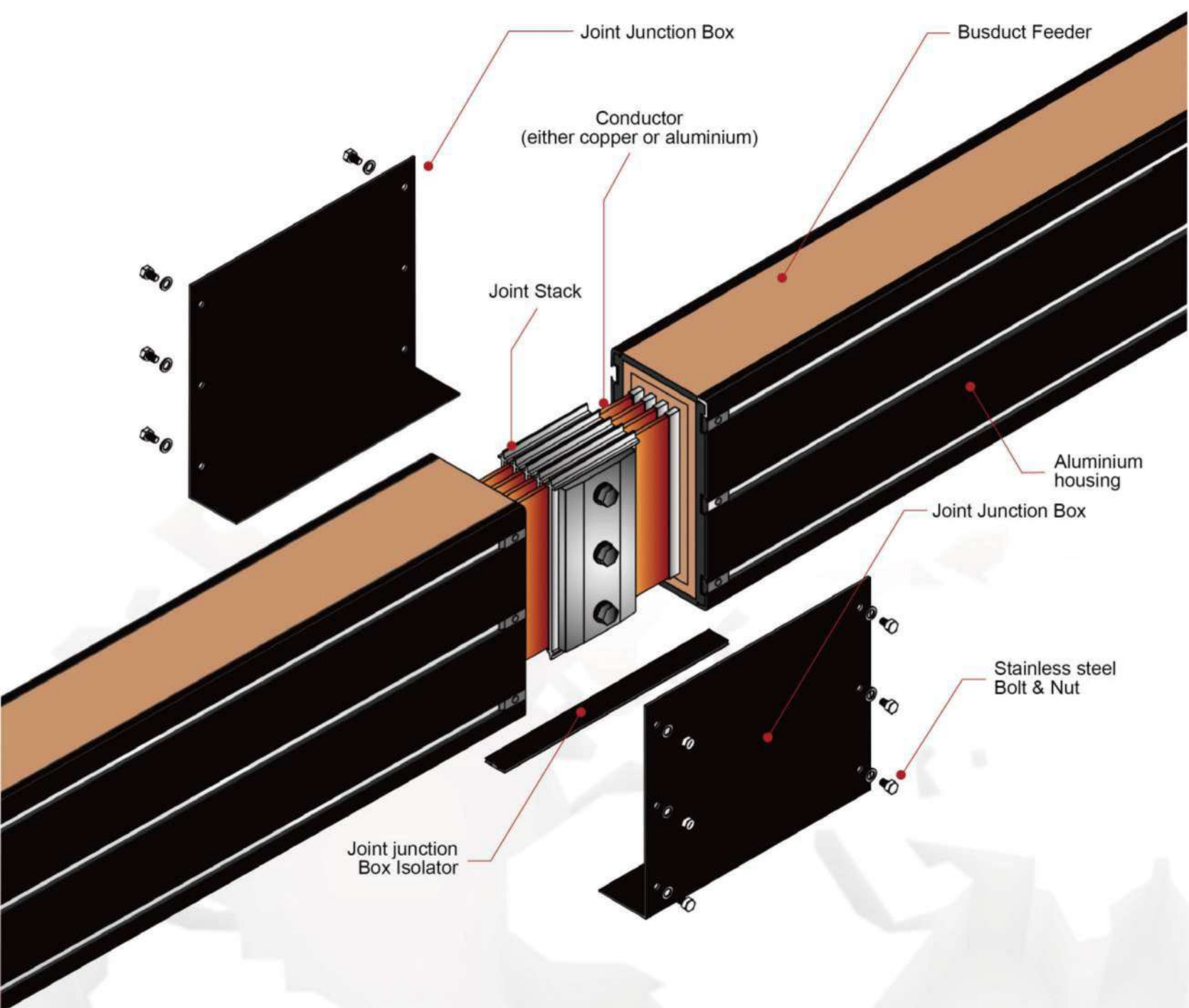
Note:

Curing process will usually take 4-6 hours.



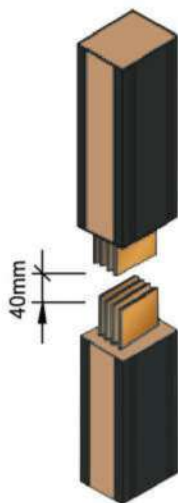
Installation Guideline

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 40mm±10mm.

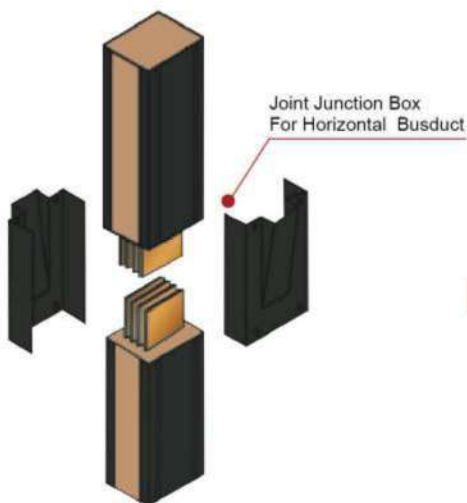


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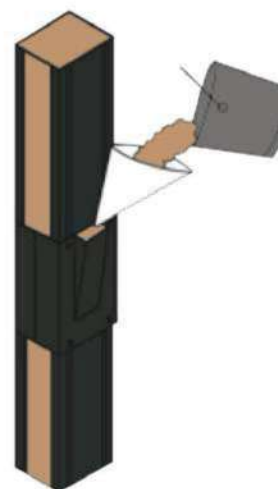
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Step 3 :

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

Note:

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Since 2011 IP68

Safe Energization against continuous immersion in water



KEMA Quality



Your Idea System!

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