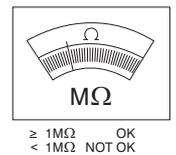
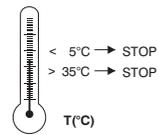


# E-LINE CCR BUSBAR JOINT INSTALLATION



## ►► Preparation of Joint Resin 4

The meger test must be carried out before casting. If Resin 4 (A) and Resin 4 (B) are stored in a cold environment, they should be kept in a warm environment one day before casting (> 20 °C). Ambient temperature during casting should be 5 °C < T casting < 35 °C.



### Preparation of Resin 4



Based on the joint, find the total mixture from the table values on the side.



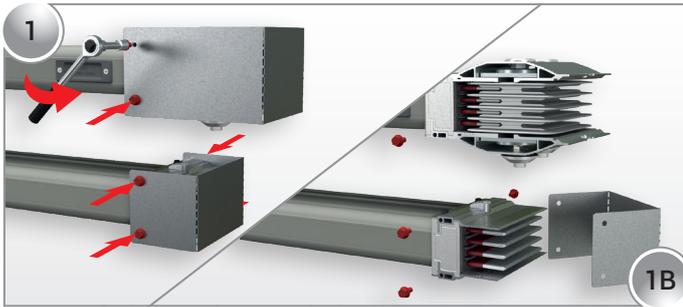
Mix the mixture with a beater at low speed for at least 30sec - 1 minutes until it is homogeneous.

### Amount of Resin to be Used

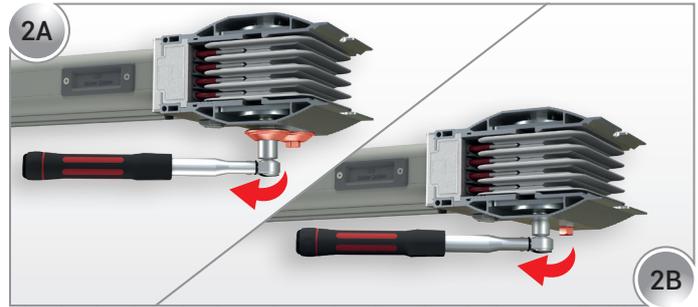
Aluminium (Al)		Copper (Cu)		Conductor	3 Conductor (kg)	4 Conductor (kg)	4½ - 5 Conductor (kg)
Rated Current	Busbar Code	Rated Current	Busbar Code				
600	06	650	06	6x40	1,1	1,3	1,4
-	-	850	08	6x45	1,2	1,4	1,7
-	-	1000	10	6x55	1,2	1,5	1,5
800	09	1250	12	6x80	1,4	1,6	1,8
1250	12	1600	16	6x110	1,6	1,9	2,1
-	-	2000	20	6x150	1,9	2,3	2,6
1600	16	-	-	6x160	2,0	2,4	2,7
2000	23	-	-	6x250	2,6	3,0	3,5
-	-	2500	25	2(6x80)	2,3	2,7	3,0
-	-	3200	32	2(6x110)	2,8	3,3	3,5
-	-	3400	34	2(6x125)	3,1	3,6	4,0
2500	29	4000	40	2(6x140)	3,3	3,9	4,2
3000	31	-	-	2(6x160)	3,7	4,3	4,9
3300	33	4500	45	2(6x180)	4,2	4,7	5,3
3600	37	-	-	2(6x200)	4,4	5,1	5,7
-	-	5000	50	3(6x125)	4,5	5,2	5,7
4000	40	-	-	3(6x140)	5,0	5,7	6,5
4500	45	5750	57	3(6x160)	5,4	6,2	6,9
5000	50	6300	63	3(6x180)	6,1	7,0	7,6
5400	54	-	-	3(6x200)	6,7	7,6	7,8

# E-LINE CCR

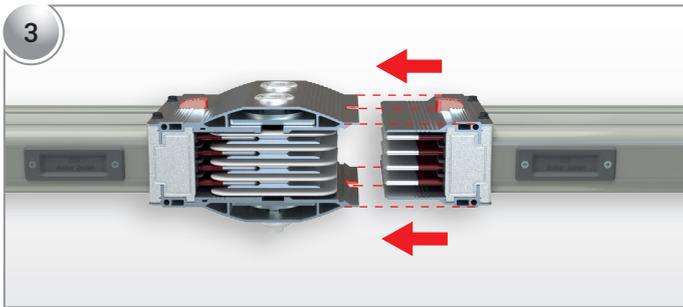
## ►► Joint Installation / Flatwise



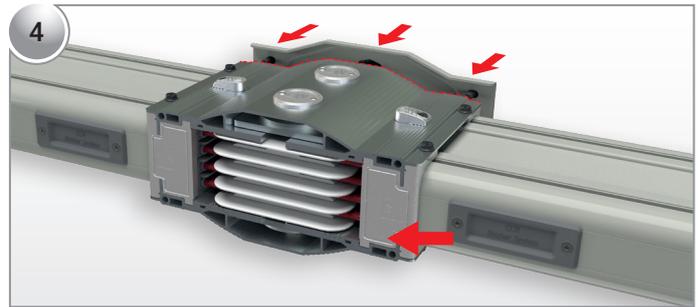
1  
Unscrew the bolts and remove the busbar protection cover.



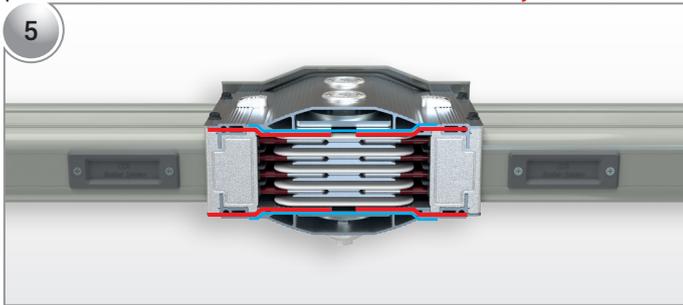
2A  
2B  
First busbar hanging is performed and conformity is controlled from each direction. Adjunct bolts are lightly loosened.



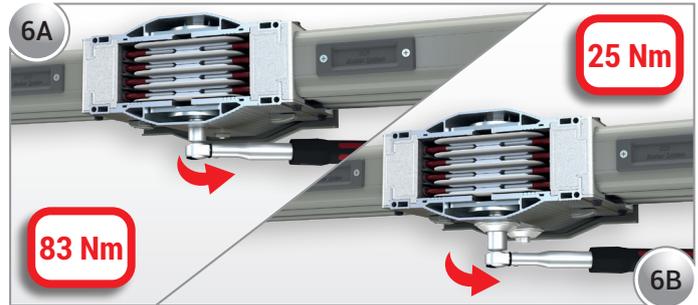
3  
Direction of adjunct busbar and conformity of alignment parts are controlled. Busbar is assembled in a way to overlap small alignment parts. **Attention! Make sure that the conductors are dry and clean!**



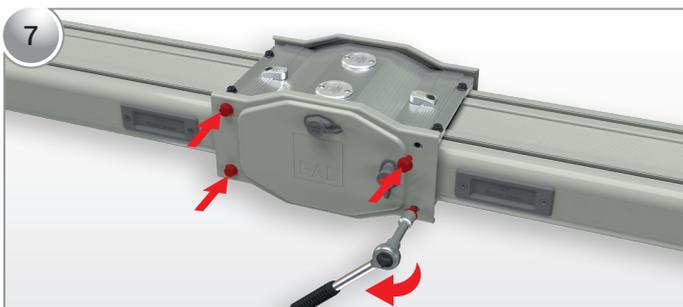
4  
The joint block cover is attached to align the block joint and the bolts are tightened not too strong.



5  
Busbar is approached to alignment slots until it is perfectly seated. Adjunct bolts are tightened after checking alignments.



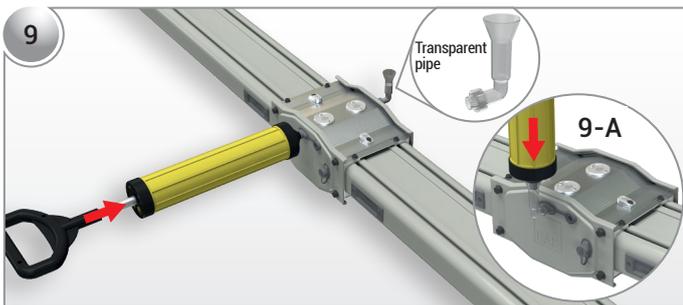
6A  
6B  
Joint bolts are tightened after checking alignments. Joint covers are placed.



7  
Adjunct lids are placed.



8  
Plastic lid of the pouring area is removed. **Attention! Pouring is done through the lid that is positioned on the upper side according to the busbar position direction.**



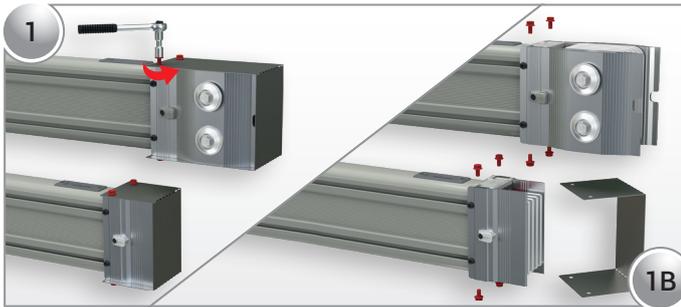
9  
Apply injection from the filler hole and use transparent pipe for behind hole. Continue the filling process until you see silicon inside the transparent pipe. (If you don't have enough space for injection, use transparent pipe for both sides)



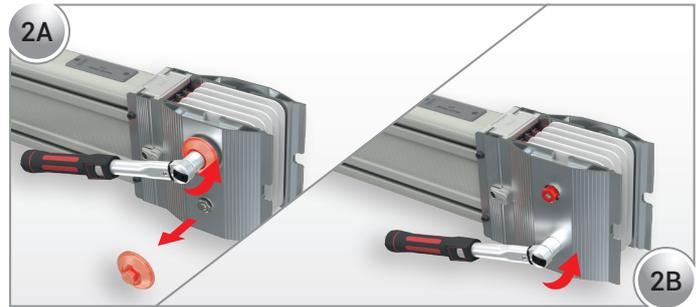
10  
Once the injection is done, plastic lid is placed and installation is completed.

# E-LINE CCR

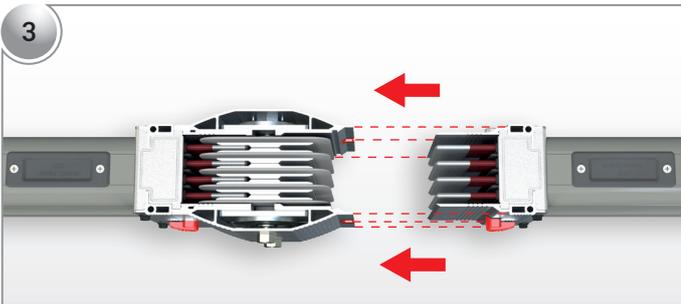
## ►► Joint Installation / Edgewise



Unscrew the bolts and remove the busbar protection cover.



First busbar hanging is performed and conformity is controlled from each direction. Adjunct bolts are lightly loosened after removing the bolt protection lids.

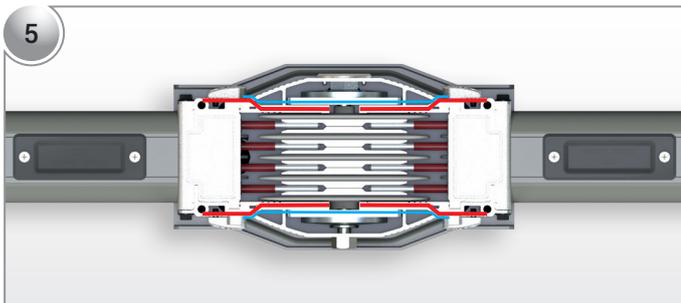


Direction of adjunct busbar and conformity of alignment parts are controlled. Busbar is assembled, aligning big alignment part to big, small part to small.

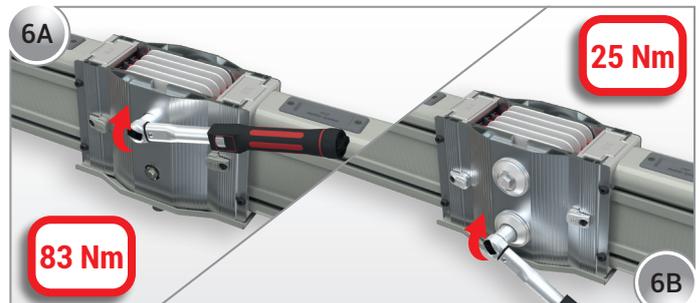
**Attention! Make sure that the conductors are dry and clean!**



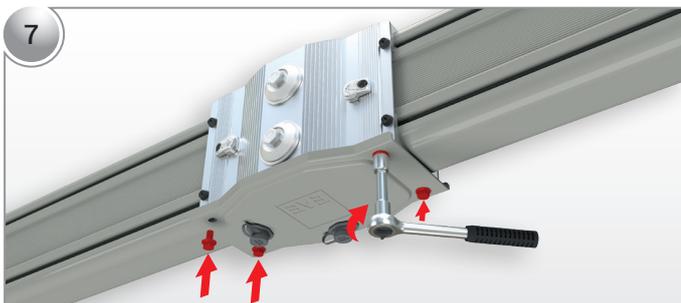
The joint block cover is attached to align the block joint and the bolts are tightened not too strong.



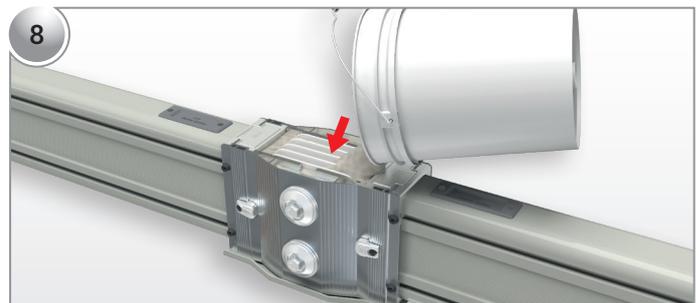
Busbar is approached to alignment sockets until it is perfectly seated.



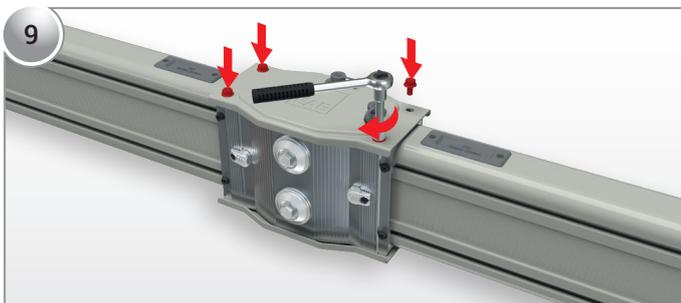
Adjunct bolts are tightened with a moment of 83Nm after checking alignments. Bolt protection lids are attached.



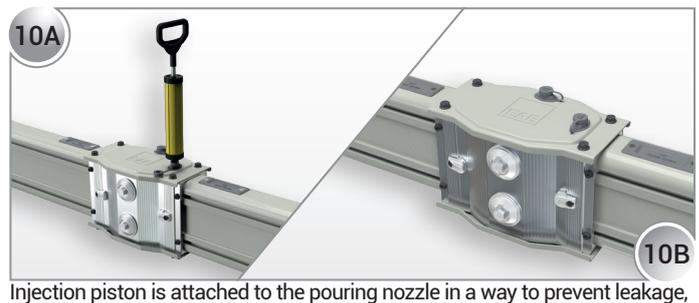
Only the lower lid of the adjunct is attached. Bolts are tightened.



Mixture is poured in a single point over the conductors in the aligned adjunct with the lower-lid capped. It is poured until the maximum level.



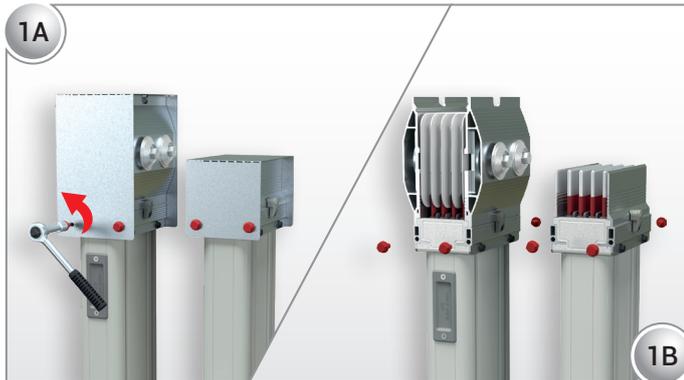
Upper adjunct lid is attached. Bolts are tightened.



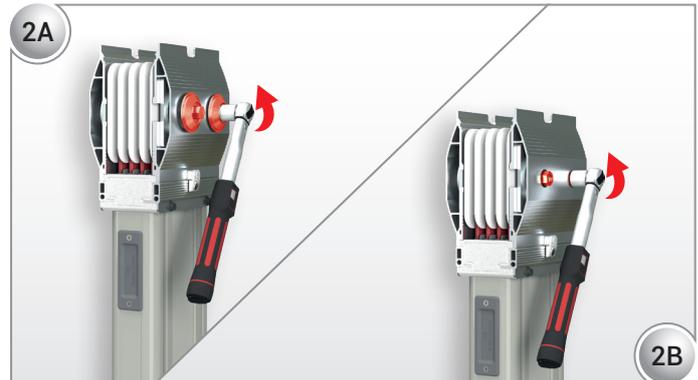
Injection piston is attached to the pouring nozzle in a way to prevent leakage, and "Resin 4" material injected inside the adjunct with the help of the handle. Once the injection is done, plastic lid is placed and installation is completed.

# E-LINE CCR

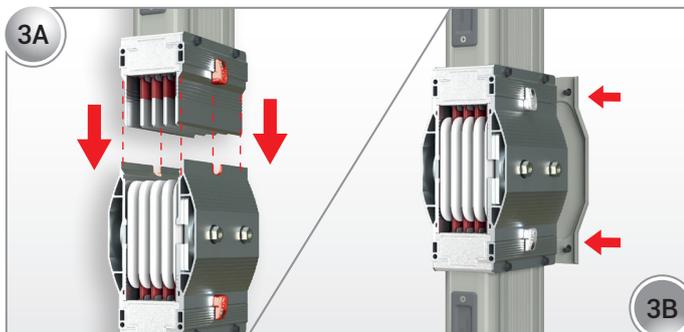
## ►► Joint Installation / Vertical



Unscrew the bolts and remove the busbar protection cover.

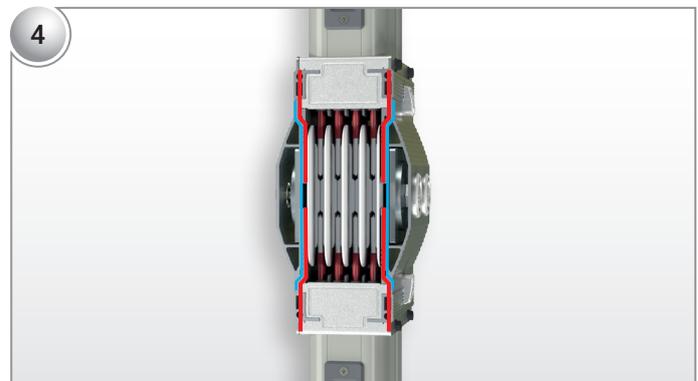


First busbar hanging is performed and conformity is controlled from each direction. Adjunct bolts are lightly loosened after removing the bolt protection lids.

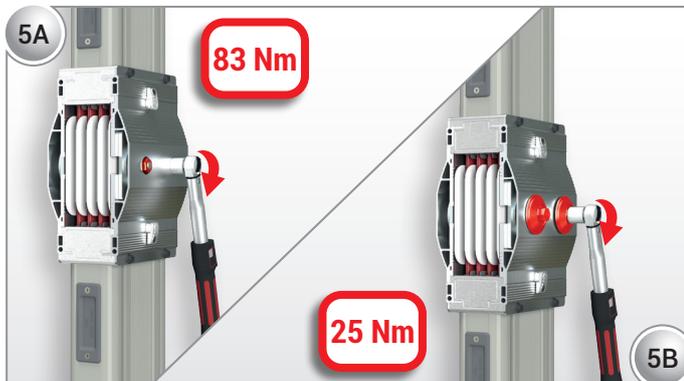


Direction of adjunct busbar and conformity of alignment parts are controlled. Busbar is assembled, aligning big alignment part to big, small part to small. The joint block cover is attached to align the block joint and the bolts are tightened not too strong.

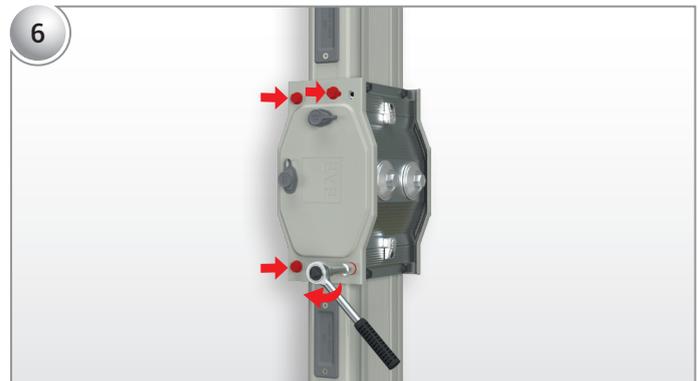
**Attention! Make sure that the conductors are dry and clean!**



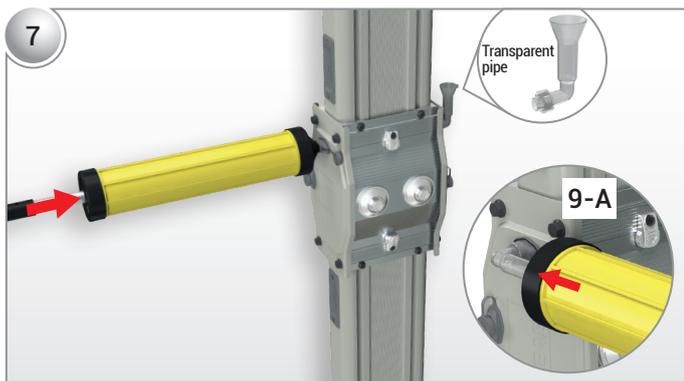
Busbar is approached to alignment sockets until it is perfectly seated.



Adjunct bolts are tightened with a moment of 83Nm after checking alignments. Bolt protection lids are attached.



Adjunct lids are placed. Bolts are tightened.



Apply injection from the filler hole and use transparent pipe for behind hole. Continue the filling process until you see silicon inside the transparent pipe. (If you don't have enough space for injection, use transparent pipe for both sides)



Once the injection is done, plastic lid is placed and installation is completed.