

Assembly instructions

BERNECKER ModularSteel is extremely versatile and easy to assemble thanks to its relatively small number of system components. There are a number of important rules that must be followed however:
 The system components are completely hot-dip galvanized and all necessary holes are predrilled at our factory. Drilling or welding on the components affects their loadbearing capacity and should be avoided.

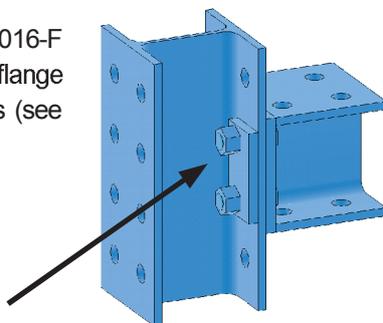
Assembly in general

The screw fastenings* must be used as shown in the sketch and tightened with the prescribed torque (Tab.1).

Tab. 1	ModularSteel 120	ModularSteel 80
Torque	120 Nm	80 Nm
* Screw fastenings always tightened with prescribed tool		

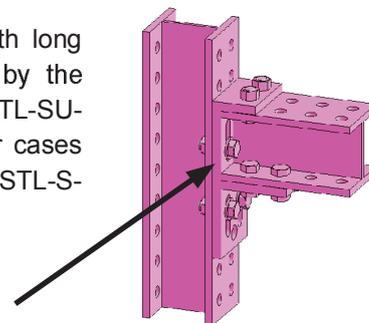
ModularSteel 120:

Washer plates* STB-U-016-F must be fitted on the flange side in all 90° connections (see sketch).



ModularSteel 80:

Screw connections with long holes must be fitted by the screw fastening* STL-SU-012x035-F. In all other cases the screw fastening* STL-S-012x030-F is used.

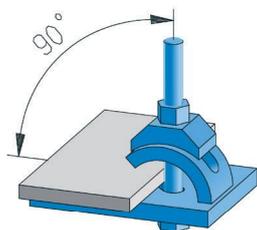


Adapter plate assembly

Position the system beams and screw them with the provided screw fastening* in the adapter plate.

Adapter plate for clamp connection

Slacken the connection kit STL-AS-F / STB-AS-F supplied, align to desired beam and clamp tight.



Caution: The bolt* must be straight and clamps be parallel to each other.

Adapter plate for plug connection

Please refer to table 2 for the types of chosen plugs which our stress calculations are based upon. Other marketable products can be used if their loadbearing capacity is proved and if they apply to the clearance hole. The plugs must be set according to the instructions and building control approvals of the plug manufacturer.

Tab. 2	ModularSteel 120	ModularSteel 80
Adapter plate	STB-APD-50-F	STL-PD-x-F
	STB-APD-B-50-F	
Plug	Liebig plug B M16-25/55/15	Liebig anchor AB M12-20/80/15
	Fischer FAZ 12/30	

Note on the static loadings:

The loadings shown in this document have been calculated based on a static model using certain assumptions and parameters. Despite taking every precaution and applying the accepted rules of engineering practice and the applicable standards, we can only guarantee the loadings for the static cases illustrated in this catalogue. Under no circumstances can we give any guarantee or warranty in the case of deviations from models, constraints and static assumptions.