Technical information plug-in connectors

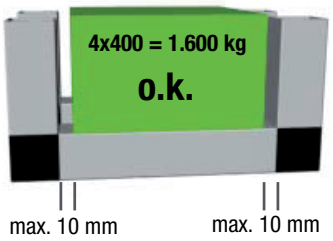
High-grade plastic plug-in connectors with steel core inlay for insertion into square tubes

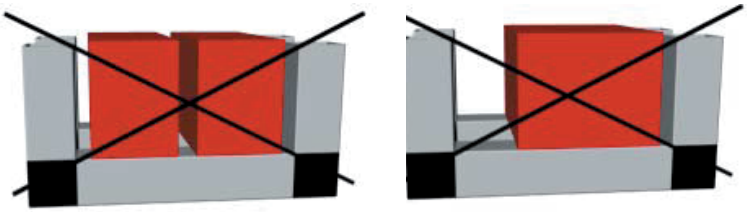
In combination with the aluminium profiles developed especially for the plug-in connectors, virtually unlimited construction possibilities are the result. The system is combinable with many different materials such as coated chipboard, right up to glass and plastic sheets. Assembly does not require screws. The plug-in connectors are easily inserted into the corresponding square tube. It can thus be disassembled and reused repeatedly. If disassembly is to be prevented, the plug-in connectors can be secured using glue, screws or rivets.

Load rating of plug-in connectors

Plug-in connectors with steel cored insert for square tubes measuring 25x25x1.5 and 30x30x2 have a compressive strength of 400 kg max. per horizontal connecter plug under the following conditions:

- the spacing between the exterior wall of the vertically coursed tube and the outer edge of the load must not exceed 10 mm.
- the lower surface of the load is so rigid that load transmission occurs entirely at the vertices of the load (see diagram).
- the load is absolutely static, i.e., without dynamic stress per travelling weights.



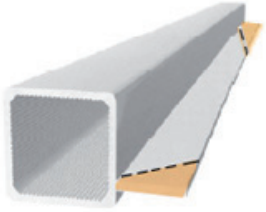


Note:

Please note that the use of items such as adjustable sliders, thread plugs and swivel pads in conjunction with the plug-in connectors can decrease these values for the entire unit.

Mitre Cuts

Mitre cuts are required when square tubes with land come in contact with a plug-in connector. On request, we will provide you with our square tubes with land, mitre cut inclusive.



In the case of a mitre cut, a 90° cut is made on the square and a 45° cut on the land. Surface preparation occurs prior to the cut. i.e., the edges of cut have a natural finish.