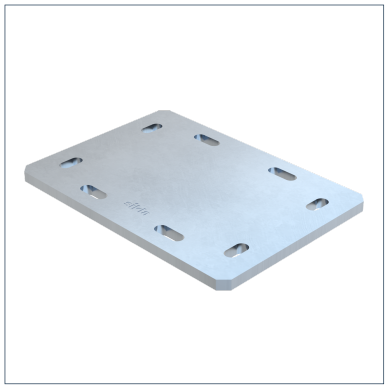
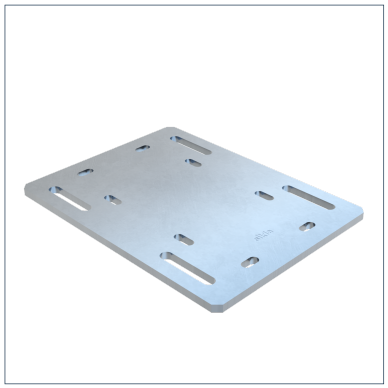
Beam Adapter Plate TKZ HCP





General Information

For the production of a cross-bracing within the siMotec beam systems 100 and 120. Connection to the primary steel structure with a flange width of up to 310 mm is also possible. According to the flange width select a suitable type.

Installation

Beam flange width 80 - 120:
Connect Beam Adapter Plate 80/120 with the help of 2 x Assembly Set MS 5P M12 (Part number 115843) onto the crossing steel beam. Assembly Sets must be ordered separately.
Beam flange width 121 - 160:
Connect Beam Adapter Plate 121/310 with the help of 2 x Assembly Set MS 5P M12 (Part number 115843) onto the crossing steel beam. Assembly Sets must be ordered separately.
Beam flange width 161 - 310:
Connect Beam Adapter Plate 121/310 with the help of 1 x Assembly Set MS 5P M12 (Part number 115843) and 1 x Assembly Set MS 5P M16 (Part number 115844) onto the crossing steel beam. Assembly Sets must be ordered separately.

Type	Connection to flange width [mm]	Tightening torque MA [Nm] / plus revolution
80/120	80 - 120	60 / 90°
121/310	121 - 160	60 / 90°
121/310	161 - 310	140 / 90°

Material Properties

Halogen-free	0
UV-resistant	0

Material

Primary element material	steel
Surface finish	HCP
Corrosion protection class	C4

Forces

Type	-V{X,perm.}	V{X,perm.}	-V{Y,perm.}	V{Y,perm.}	V{Z,perm.}
TKZ 80/120 HCP	12,00 kN	12,00 kN	12,00 kN	12,00 kN	52,60 kN
TKZ 121/310 HCP	12,00 kN	12,00 kN	12,00 kN	12,00 kN	52,60 kN

Note on loadings

Shear force load capacities are calculated for the worst event of flange thickness 30 mm (M12) or 40 mm (M16) and include a friction coefficient μ(adhesion) = 0.20.
A possibly operating tensile force F(z) isn't included.

Additional information

Also available with DualShield for high corrosion protection within C5H environments.

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Types

Type	Min. flange width	Weight	Quantity	Part number
TKZ 80/120 HCP	80,00 mm	6,090 kg/pcs.	1 pcs.	803575
TKZ 121/310 HCP	121,00 mm	11,700 kg/pcs.	1 pcs.	803576

Dimensions

Type	BP	BP1	BP3	bP1	bP2	bP3	HP	HP1	HP3	lzP1	lzP2	lzP3	tP
TKZ 80/120 HCP	220 mm	170 mm		14 mm	14 mm		310 mm	250 mm		17 mm	22,5 mm		12 mm
TKZ 121/310 HCP	320 mm	256 mm	122 mm	14 mm	18 mm	14 mm	420 mm	350 mm	152 mm	18 mm	77,5 mm	20 mm	12 mm

Certification