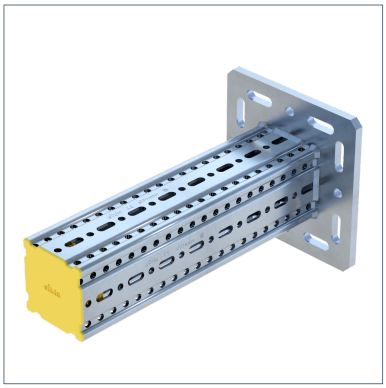
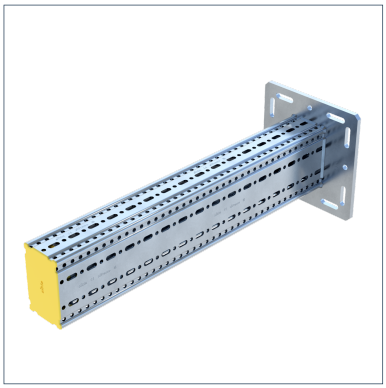
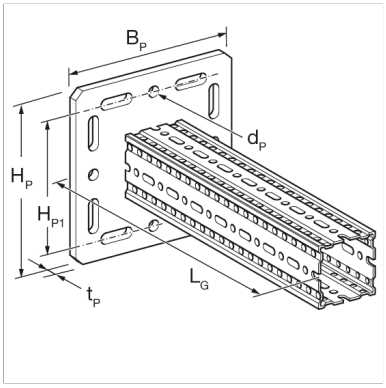
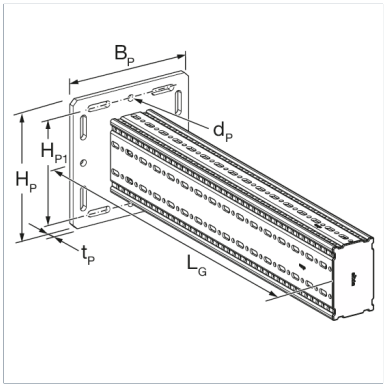
Beam Bracket TKO F100 HCP









General Information

Galvanised hollow-box-section with welded end-plate to serve as cantilever arm. May be used as a crossbar when combined with End Support STA/End Support WBD and 4 x Self Forming Screw FLS.

Installation

Type TKO F 100:
Depending on the situation, different options are recommended:
a) Directly to building structure: 4 x suitable wall anchors M12
b) To traditional steel beams between 80 – 120 mm flange dimensions: 1x Assembly Set 5P M12 S
c) To traditional steel beams > 120 flange dimension: with on-demand Adaptor Plate AP
d) To Sikla siMotec Steel Beams 100/120: with Bracket Plates FV 100/120 when positive mechanical connection required
Configuration: Base plate welded to Beam Section F 100

Type TKO F 100/160:
Depending on the situation, different options are recommended:
a) Directly to building structure: 4 x suitable wall anchors M12
b) To traditional steel beams between 100 – 180 mm flange dimensions: 1x Assembly Set 5P M12 S
Configuration: Base plate welded to Beam Section F 100/160

Material Properties

Halogen-free	0
UV-resistant	0

Material

Primary element material	steel
Surface finish	HCP
Corrosion protection class	C4

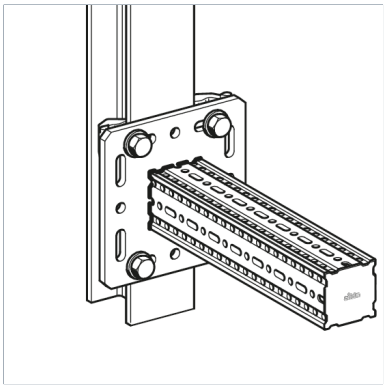
Forces

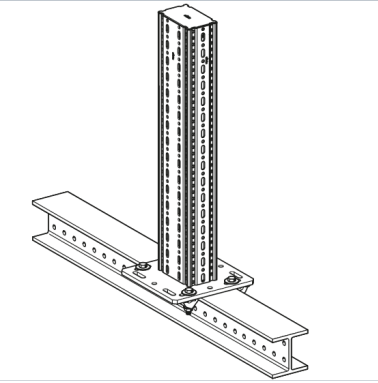
Type	-V{X,Rd}	V{X,Rd}	-V{Y,Rd}	V{Y,Rd}	-V{Z,Rd}	V{Z,Rd}
TKO F100- 400 HCP	126.6 kN	126.6 kN	58.9 kN	58.9 kN	58.9 kN	58.9 kN
TKO F100- 800 HCP	126.6 kN	126.6 kN	58.9 kN	58.9 kN	58.9 kN	58.9 kN
TKO F100-1200 HCP	126.6 kN	126.6 kN	58.9 kN	58.9 kN	58.9 kN	58.9 kN
TKO F100/160- 800 HCP	124 kN	124 kN	67.9 kN	67.9 kN	79.2 kN	79.2 kN
TKO F100/160-1200 HCP	124 kN	124 kN	67.9 kN	67.9 kN	79.2 kN	79.2 kN

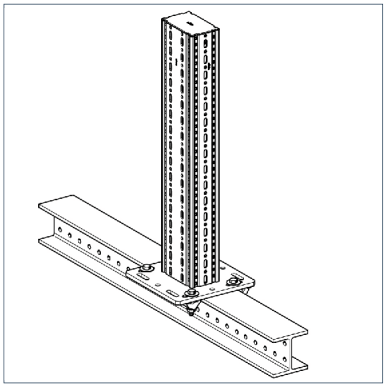
Moments

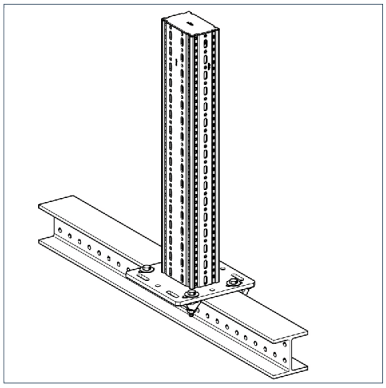
Type	-M{X,Rd}	M{X,Rd}	-M{Y,Rd}	M{Y,Rd}	-M{Z,Rd}	M{Z,Rd}
TKO F100- 400 HCP	7.1 kNm	7.1 kNm	11.1 kNm	11.1 kNm	11.1 kNm	11.1 kNm
TKO F100- 800 HCP	7.1 kNm	7.1 kNm	11.1 kNm	11.1 kNm	11.1 kNm	11.1 kNm
TKO F100-1200 HCP	7.1 kNm	7.1 kNm	11.1 kNm	11.1 kNm	11.1 kNm	11.1 kNm

Beam Bracket TKO F100 HCP









Type	-M{X,Rd}	M{X,Rd}	-M{Y,Rd}	M{Y,Rd}	-M{Z,Rd}	M{Z,Rd}
TKO F100/160- 800 HCP	11.3 kNm	11.3 kNm	11.3 kNm	11.3 kNm	8.6 kNm	8.6 kNm
TKO F100/160-1200 HCP	11.3 kNm	11.3 kNm	11.3 kNm	11.3 kNm	8.6 kNm	8.6 kNm

Note on loadings

The specified load values are design loads Rd and include a partial safety factor $\gamma M2 = 1.25$ (DIN EN 1993-1-8:2025-04, Table 4.1)
A partial safety factor of $\gamma G = 1.35$ (DIN EN 1990:2021-10, Table A1.2(B)) must be taken into account for permanent loads.

Additional information

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

Types

Type	LG	Weight	Quantity	Part number
TKO F100- 400 HCP	413 mm	8.624 kg/pcs.	1 pcs.	113071
TKO F100- 800 HCP	813 mm	12.784 kg/pcs.	1 pcs.	113072
TKO F100-1200 HCP	1213 mm	17.500 kg/pcs.	1 pcs.	113421
TKO F100/160- 800 HCP	813 mm	18.560 kg/pcs.	1 pcs.	113097
TKO F100/160-1200 HCP	1213 mm	24.540 kg/pcs.	1 pcs.	113420

Dimensions

Type	BP	dP	HP	HP1	LG	tP
TKO F100- 400 HCP	220 mm	14 mm	220 mm	170 mm	413 mm	12 mm
TKO F100- 800 HCP	220 mm	14 mm	220 mm	170 mm	813 mm	12 mm
TKO F100-1200 HCP	220 mm	14 mm	220 mm	170 mm	1213 mm	12 mm
TKO F100/160- 800 HCP	280 mm	14 mm	280 mm	230 mm	813 mm	12 mm
TKO F100/160-1200 HCP	280 mm	14 mm	280 mm	230 mm	1213 mm	12 mm

Certification

Stahl

European Technical Assessment – Sikla siFramo for PRS
ETA-24/0471

CE mark (Declaration of performance see downloads)
ETA-24/0471

Documents

siFramo - ETA-24/0471

Static Guideline - siFramo & siMotec