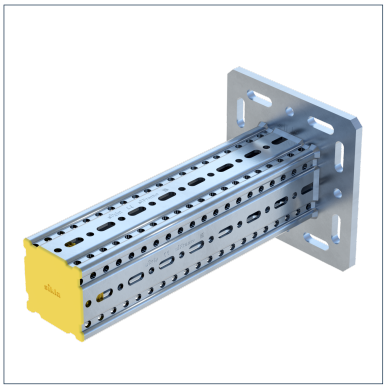
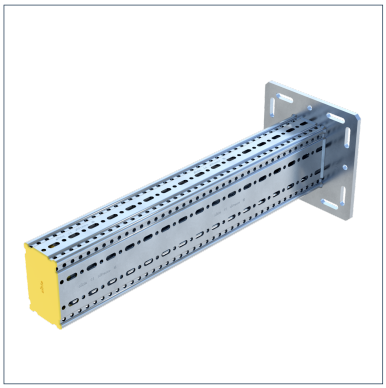
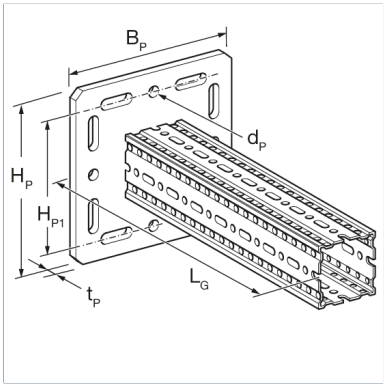
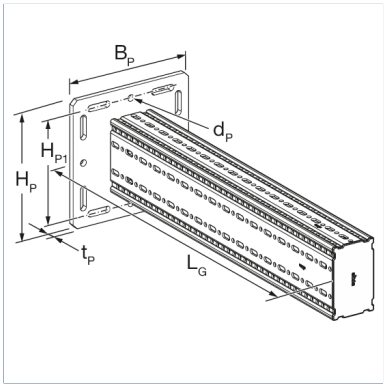
# Beam Bracket TKO F100 HCP








## 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 |

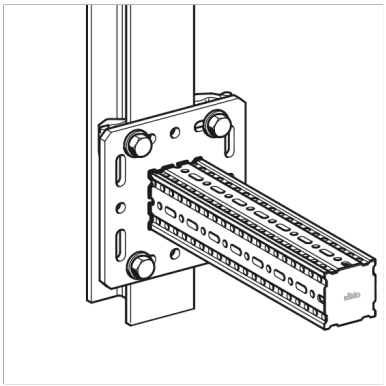
## Forces

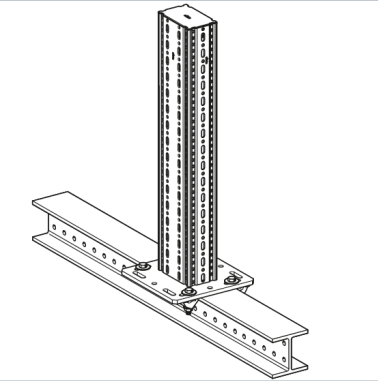
| Type | -V{X,Rd} | V{X,Rd} | -V{Y,Rd} | V{Y,Rd} | -V{Z,Rd} | V{Z,Rd} |
|---|---|---|---|---|---|---|
| TKO F100- 400 HCP | 126.6 kN | 126.6 kN | 58.9 kN | 58.9 kN | 58.9 kN | 58.9 kN |
| TKO F100- 800 HCP | 126.6 kN | 126.6 kN | 58.9 kN | 58.9 kN | 58.9 kN | 58.9 kN |
| TKO F100-1200 HCP | 126.6 kN | 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 |

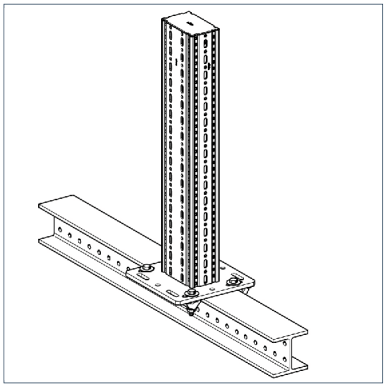
## Moments

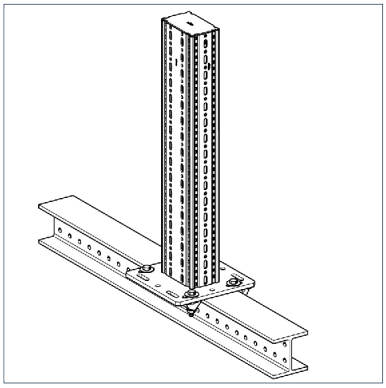
| Type | -M{X,Rd} | M{X,Rd} | -M{Y,Rd} | M{Y,Rd} | -M{Z,Rd} | M{Z,Rd} |
|---|---|---|---|---|---|---|
| TKO F100- 400 HCP | 7.1 kNm | 7.1 kNm | 11.1 kNm | 11.1 kNm | 11.1 kNm | 11.1 kNm |
| TKO F100- 800 HCP | 7.1 kNm | 7.1 kNm | 11.1 kNm | 11.1 kNm | 11.1 kNm | 11.1 kNm |
| TKO F100-1200 HCP | 7.1 kNm | 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 γM2 = 1.25 (DIN EN 1993-1-8:2025-04, Table 4.1)
A partial safety factor of γG = 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