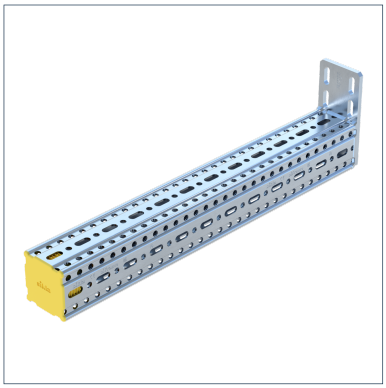
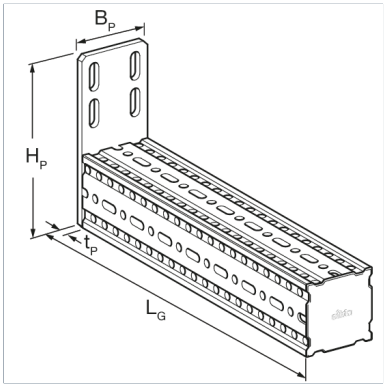
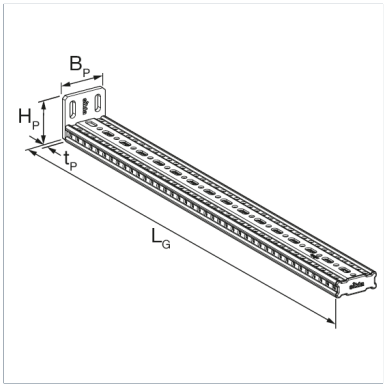
# Cantilever Bracket AK F 80-E HCP








## 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 and 4 x Self Forming Screw FLS. By means of the round holes in the base plate a direct connection to excisting cast-in channels is possible.

## Installation

AK-E F 80: With 4 x Self Forming Screw FLS when fixed to another siFramo hollow-box-section. Alternatively with two suitable wall anchors through holes “A” when fixed directly to building structure.
AK-E F 80/30: With 2 x Self Forming Screw FLS when fixed to another siFramo hollow-box-section. Alternatively with two suitable wall anchors through holes “A” when fixed directly to building structure.
Configuration AK-E F 80: Plate welded to Beam section F 80
Configuration AK-E F 80/30: Plate welded to Beam section F 80/30

## 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} |
|---|---|---|---|---|---|
| AK-E F 80/30- 400 HCP | 9 kN | 9 kN | 9,4 kN | 9,4 kN | 8,2 kN |
| AK-E F 80/30- 800 HCP | 9 kN | 9 kN | 9,4 kN | 9,4 kN | 8,2 kN |
| AK-E F 80- 600 HCP | 17 kN | 17 kN | 9,1 kN | 9,1 kN | 31,3 kN |

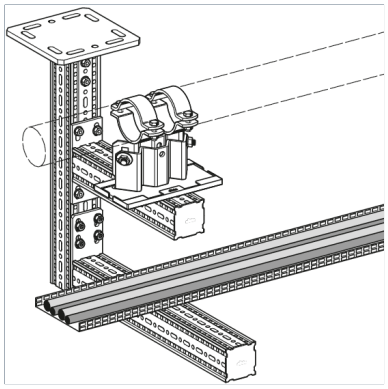
## Moments

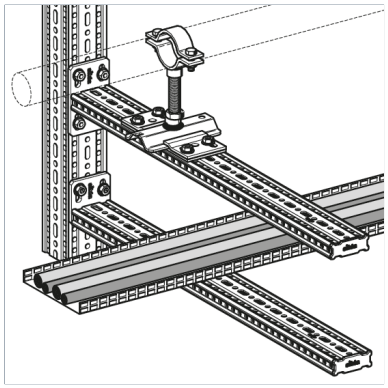
| Type | -M{X,Rd} | M{X,Rd} | M{Y,Rd} | -M{Z,Rd} | M{Z,Rd} |
|---|---|---|---|---|---|
| AK-E F 80/30- 400 HCP | 0,5 kNm | 0,5 kNm | 0,1 kNm | 0,5 kNm | 0,5 kNm |
| AK-E F 80/30- 800 HCP | 0,5 kNm | 0,5 kNm | 0,1 kNm | 0,5 kNm | 0,5 kNm |
| AK-E F 80- 600 HCP | 2,1 kNm | 2,1 kNm | 2,2 kNm | 0,8 kNm | 0,8 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.

# Cantilever Bracket AK F 80-E HCP





## Additional information

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

## Types

| Type | LG | Weight | Quantity | Part number |
|---|---|---|---|---|
| AK-E F 80/30- 400 HCP | 409 mm | 2,200 kg/pcs. | 1 pcs. | 113625 |
| AK-E F 80/30- 800 HCP | 809 mm | 3,980 kg/pcs. | 1 pcs. | 113626 |
| AK-E F 80- 600 HCP | 609 mm | 4,540 kg/pcs. | 1 pcs. | 110370 |

## Dimensions

| Type | BP | HP | LG | tP |
|---|---|---|---|---|
| AK-E F 80/30- 400 HCP | 80 mm | 80 mm | 409 mm | 8 mm |
| AK-E F 80/30- 800 HCP | 80 mm | 80 mm | 809 mm | 8 mm |
| AK-E F 80- 600 HCP | 80 mm | 165 mm | 609 mm | 8 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