Cantilever Bracket AK F 80 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

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.

Configuration AK F 80/30: Plate welded to Beam section F 80/30
Configuration AK F 80: Plate welded to Beam section F 80

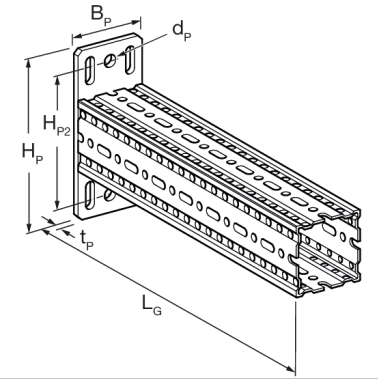


Material Properties

Halogen-free	0
UV-resistant	0

Material

Primary element material	steel
Surface finish	HCP
Corrosion protection class	C4

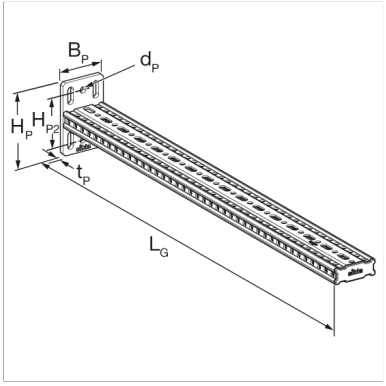


Forces

Type	-V{X,Rd}	V{X,Rd}	-V{Y,Rd}	V{Y,Rd}	-V{Z,Rd}	V{Z,Rd}
AK F 80- 400 HCP	26,9 kN	26,9 kN	14 kN	14 kN	25,2 kN	25,2 kN
AK F 80/30- 400 HCP	30,7 kN	30,7 kN	9,4 kN	9,4 kN	8,2 kN	8,2 kN
AK F 80- 800 HCP	26,9 kN	26,9 kN	14 kN	14 kN	25,2 kN	25,2 kN
AK F 80/30- 800 HCP	30,7 kN	30,7 kN	9,4 kN		8,2 kN	8,2 kN

Moments

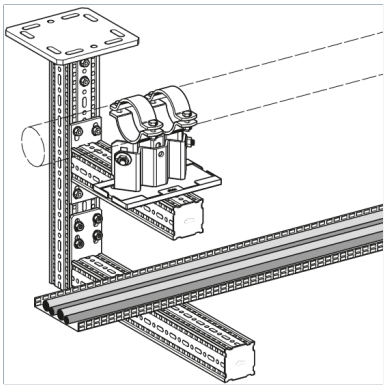
Type	-M{X,Rd}	M{X,Rd}	-M{Y,Rd}	M{Y,Rd}	-M{Z,Rd}	M{Z,Rd}
AK F 80- 400 HCP	2,1 kNm	2,1 kNm	2,4 kNm	2,4 kNm	1,1 kNm	1,1 kNm
AK F 80/30- 400 HCP	1,1 kNm	1,1 kNm	1,4 kNm	1,4 kNm	0,9 kNm	0,9 kNm
AK F 80- 800 HCP	2,1 kNm	2,1 kNm	2,4 kNm	2,4 kNm	1,1 kNm	1,1 kNm
AK F 80/30- 800 HCP	1,1 kNm	1,1 kNm	1,4 kNm	1,4 kNm	0,9 kNm	0,9 kNm

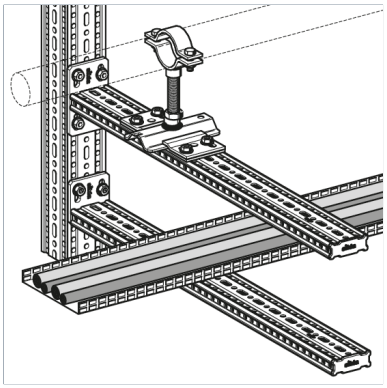


Note on loadings

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.

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Additional information

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

Types

Type	LG	Weight	Quantity	Part number
AK F 80- 400 HCP	409 mm	3,400 kg/pcs.	1 pcs.	192764
AK F 80/30- 400 HCP	409 mm	2,400 kg/pcs.	1 pcs.	113064
AK F 80- 800 HCP	809 mm	5,800 kg/pcs.	1 pcs.	192771
AK F 80/30- 800 HCP	809 mm	4,180 kg/pcs.	1 pcs.	113065

Dimensions

Type	BP	dP	HP	HP2	LG	tP
AK F 80- 400 HCP	80 mm	14 mm	190 mm	150 mm	409 mm	8 mm
AK F 80/30- 400 HCP	80 mm	14 mm	130 mm	90 mm	409 mm	8 mm
AK F 80- 800 HCP	80 mm	14 mm	190 mm	150 mm	809 mm	8 mm
AK F 80/30- 800 HCP	80 mm	14 mm	130 mm	90 mm	809 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

Static Guideline - siFramo & siMotec