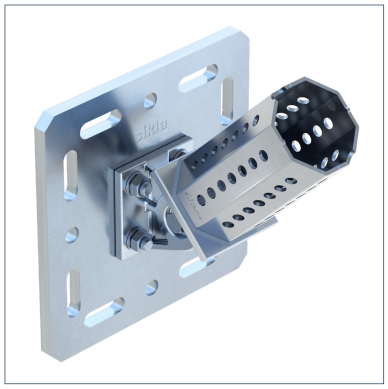
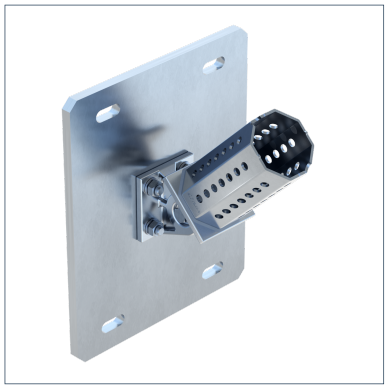
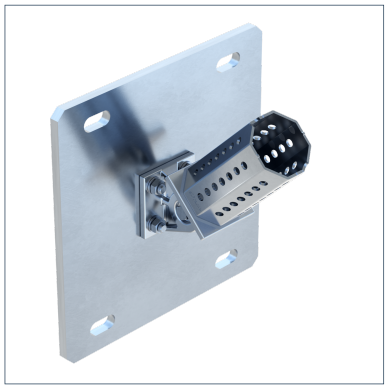
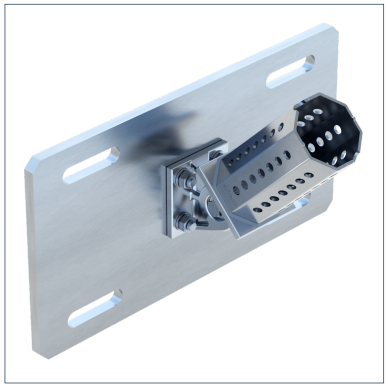
Pivot Joint GE F - ST F 80 HCP









General Information

A bracing element for single-armed cantilevers with the siFramo F80 support system on steel beams with flange widths between 80 and 300 mm, as well as for bracing frame structures. The pivot can be installed with angles from 25° to 155°.

Installation

Attachment of the Joints to steel structure by means of Assembly Set MS 5P M12 S while connecting the base plate. From Type 161/200 on an Assembly Set MS 5P M16 S is used. Another option is to fix the Joint to concrete walls by means of 4 heavy-duty anchors.
The support profile TP F 80 plugged onto the octagon is attached by means of 4 Self Forming Screws.
After installation at the desired angle the screws have to be tightened with 40 Nm.

By loosening the screw connection between Joint and Joining Plate it is possible to rotate the Joint by 90° and to use it for a cross member then (see figure).

Angle: 25° - 155°

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}
GE 80/120-F 80 HCP	13,7 kN	13,7 kN
GE 121/160-F 80 HCP	13,7 kN	13,7 kN
GE 161/200-F 80 HCP	13,7 kN	13,7 kN
GE 201/310-F 80 HCP	13,7 kN	13,7 kN

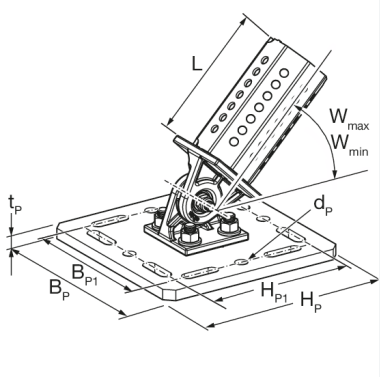
Note on loadings

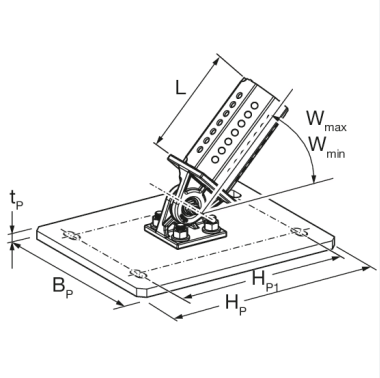
The specified load values are design loads Rd and include a partial safety factor $\gamma M2 = 1.25$ (DIN EN 1993-1-8:2025-04, Table 4.1)
A partial safety factor of $\gamma G = 1.35$ (DIN EN 1990:2021-10, Table A1.2(B)) must be taken into account for permanent loads.

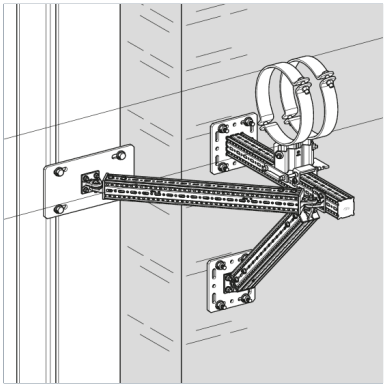
Additional information

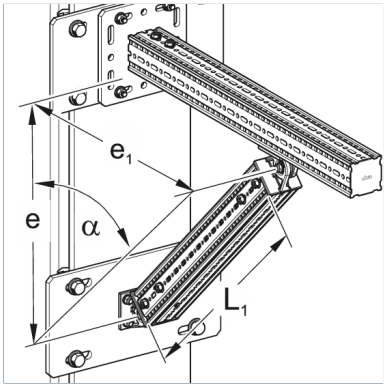
Also available with DualShield for high corrosion protection within C5H environments.

Pivot Joint GE F - ST F 80 HCP









Types

Type	Weight	Quantity	Part number
GE 80/120-F 80 HCP	6,210 kg/pcs.	1 pcs.	115856
GE 121/160-F 80 HCP	9,840 kg/pcs.	1 pcs.	115857
GE 161/200-F 80 HCP	11,250 kg/pcs.	1 pcs.	115859
GE 201/310-F 80 HCP	10,440 kg/pcs.	1 pcs.	115861

Dimensions

Type	BP	BP1	dP	HP	HP1	L	tP	Wmin	Wmax
GE 80/120-F 80 HCP	220 mm	170 mm	14 mm	220 mm	170 mm	140 mm	12 mm	25°	155°
GE 121/160-F 80 HCP	260 mm	155 mm		320 mm	260 mm	140 mm	12 mm	25°	155°
GE 161/200-F 80 HCP	310 mm	200 mm		320 mm	260 mm	140 mm	12 mm	25°	155°
GE 201/310-F 80 HCP	420 mm	275 mm		220 mm	160 mm	140 mm	12 mm	25°	155°

Certification

Stahl

epd-global
Powered by EPD-Norway

Pivot Joint GE F - ST F 80 HCP

