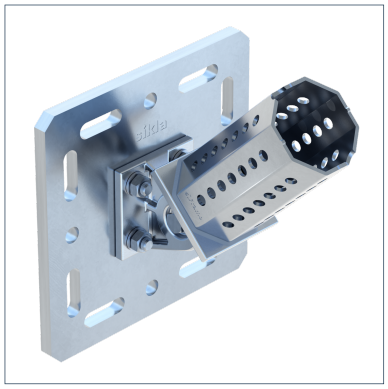
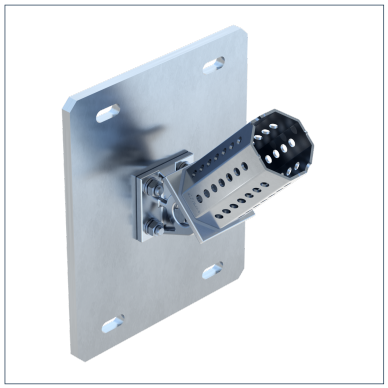
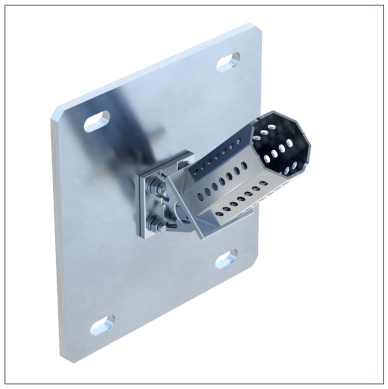
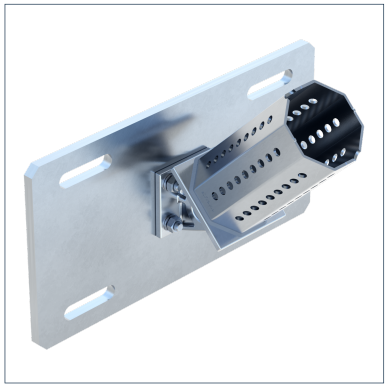
Pivot Joint GE F - ST F100 HCP









General Information

A bracing element for single-armed cantilevers with the siFramo 100 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 size 161/200 plate, beam clamp set MS 5P M16 S must be used for clamping to steel beams. Another option is to fix the Joint to concrete walls by means of 4 heavy-duty anchors M12.
The support profile TP F 100 plugged onto the octagon is attached by means of 4 Self Forming Screws. The sawing length of the support profile can be determined using the table below.
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-F100 HCP	16.5 kN	16.5 kN
GE 121/160-F100 HCP	16.5 kN	16.5 kN
GE 161/200-F100 HCP	16.5 kN	16.5 kN
GE 201/310-F100 HCP	16.5 kN	16.5 kN

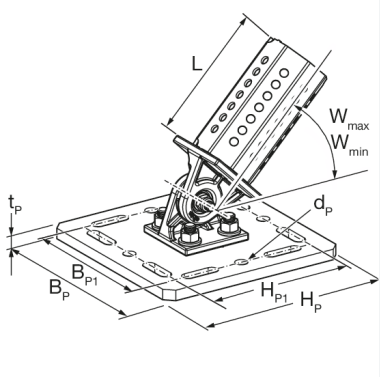
Note on loadings

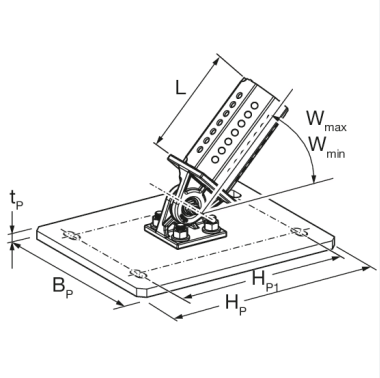
The specified load values are design loads Rd and include a partial safety factor $\gamma M2 = 1.25$ (DIN EN 1993-1-8:2025-04, Table 4.1)
A partial safety factor of $\gamma G = 1.35$ (DIN EN 1990:2021-10, Table A1.2(B)) must be taken into account for permanent loads.

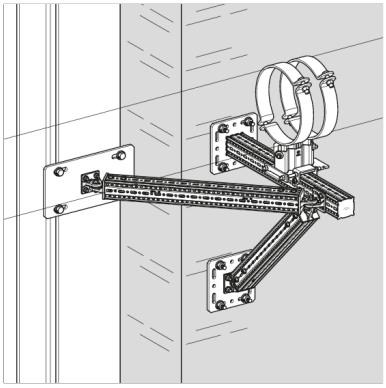
Additional information

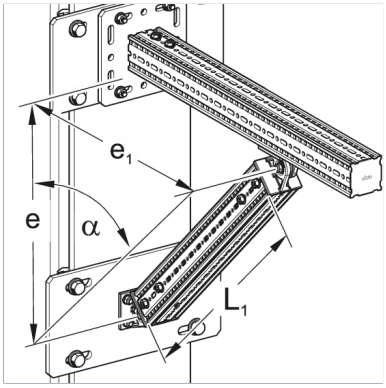
Also available with DualShield for high corrosion protection within C5H environments.

Pivot Joint GE F - ST F100 HCP









Types

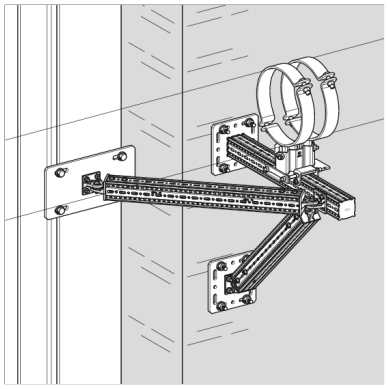
Type	Weight	Quantity	Part number
GE 80/120-F100 HCP	6.890 kg/pcs.	1 pcs.	115863
GE 121/160-F100 HCP	10.510 kg/pcs.	1 pcs.	115864
GE 161/200-F100 HCP	11.930 kg/pcs.	1 pcs.	115866
GE 201/310-F100 HCP	11.120 kg/pcs.	1 pcs.	115868

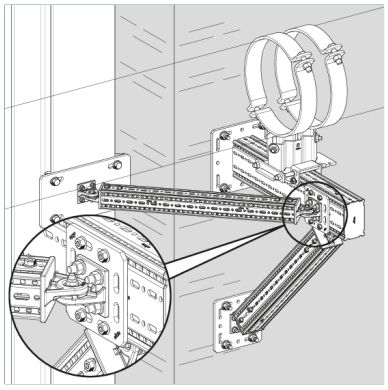
Dimensions

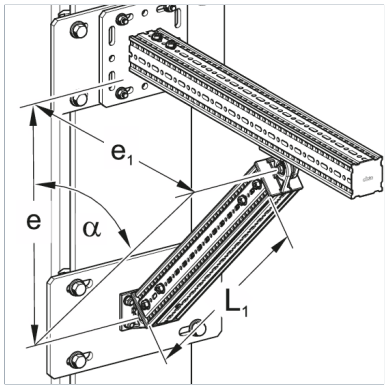
Type	BP	HP	BP1	HP1	dP	tP	L	Wmin	Wmax
GE 80/120-F100 HCP	220 mm	220 mm	170 mm	170 mm	14 mm	12 mm	180 mm	25°	155°
GE 121/160-F100 HCP	260 mm	320 mm	155 mm	260 mm		12 mm	180 mm	25°	155°
GE 161/200-F100 HCP	310 mm	320 mm	200 mm	260 mm		12 mm	180 mm	25°	155°
GE 201/310-F100 HCP	420 mm	220 mm	275 mm	160 mm		12 mm	180 mm	25°	155°

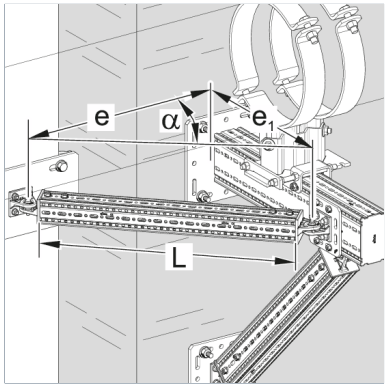
Certification

Pivot Joint GE F - ST F100 HCP









Pivot Joint GE F - ST F100 HCP

