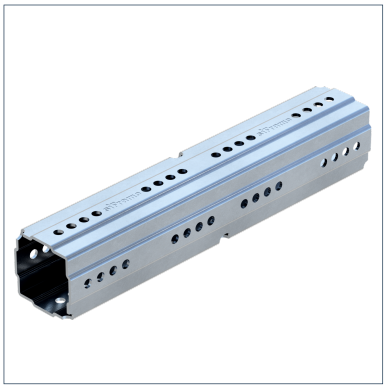
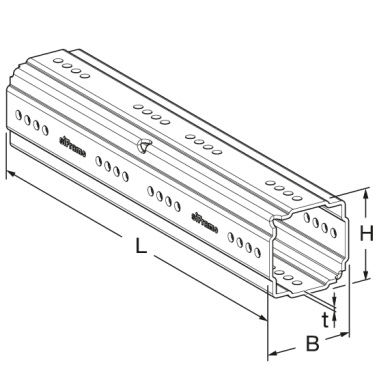
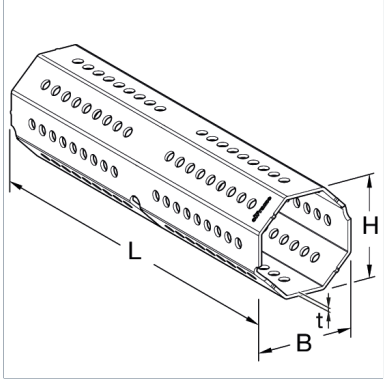
Profile Coupling PK F 80 HCP









General Information

Internal splice connecting element for Beam Section TP F 80, particularly suitable for vertical extension. Should the component be used for horizontal application, the bending moment needs to be considered.

Installation

To be fastened with 2 x 4 FLS F Self Forming Screws. For optimal bending moment, distance between screws to be as far from each other as possible.

Notice:
Self Forming Screw FLS F to be fastened on two sides with a distance of minimum of 100mm (for type 4kt) / 50 mm (for type 8kt) and to be fastened symmetrically. To optimise the bending moment the FLS F should be installed to maintain the pipe weight of the effective flow - i.e. screws are located top and bottom for horizontal cross bars not sideways.

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}
PK-4KT F 80 HCP	10 kN	10 kN
PK-8KT F 80 HCP	10 kN	10 kN

Moments

Type	-M{Y,Rd}	M{Y,Rd}	-M{Z,Rd}	M{Z,Rd}
PK-4KT F 80 HCP	5,09 kNm	5,09 kNm	5,09 kNm	5,09 kNm
PK-8KT F 80 HCP	3,54 kNm	3,54 kNm	3,54 kNm	3,54 kNm

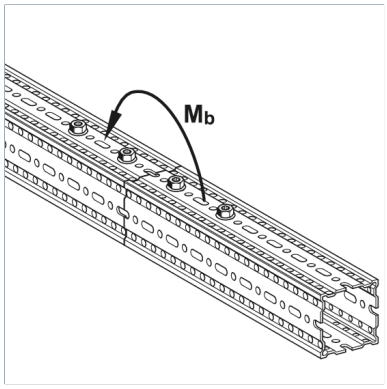
Note on loadings

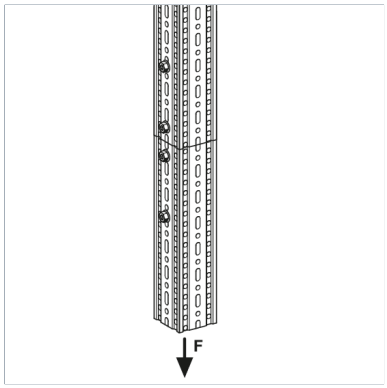
The specified load values are design loads Rd and include a partial safety factor $\gamma M2 = 1.25$ (DIN EN 1993-1-8:2025-04, Table 4.1)
A partial safety factor of $\gamma G = 1.35$ (DIN EN 1990:2021-10, Table A1.2(B)) must be taken into account for permanent loads.

Additional information

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

Profile Coupling PK F 80 HCP





Types

Type	Weight	Quantity	Part number
PK-4KT F 80 HCP	2,100 kg/pcs.	1 pcs.	111445
PK-8KT F 80 HCP	1,400 kg/pcs.	1 pcs.	111446

Dimensions

Type	B	H	L	t
PK-4KT F 80 HCP	72 mm	72 mm	382,5 mm	3 mm
PK-8KT F 80 HCP	72,5 mm	72,5 mm	280 mm	3 mm

Certification