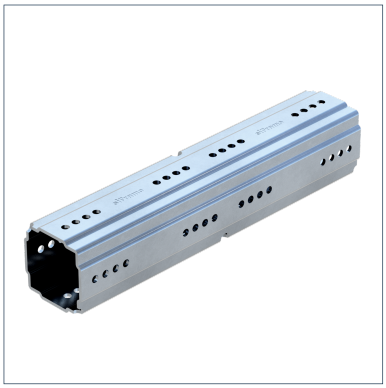
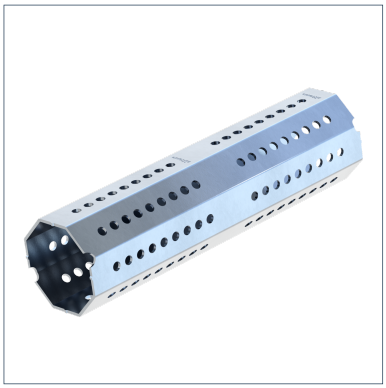
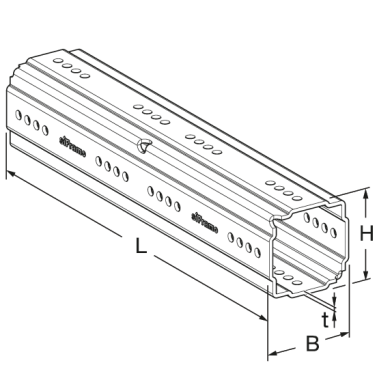
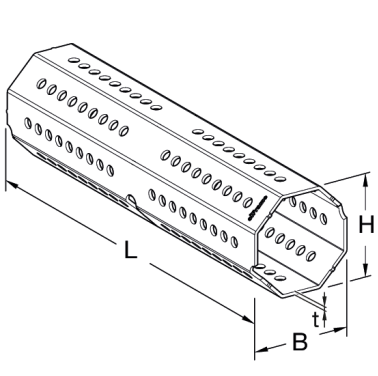
Profile Coupling PK F100 HCP









General Information

Internal splice connecting element for TP F 100 Beam Section, 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 F100 HCP	10 kN	10 kN
PK-8KT F100 HCP	10 kN	10 kN

Moments

Type	-M{Y,Rd}	M{Y,Rd}	-M{Z,Rd}	M{Z,Rd}
PK-4KT F100 HCP	5,09 kNm	5,09 kNm	5,09 kNm	5,09 kNm
PK-8KT F100 HCP	3,54 kNm	3,54 kNm	3,54 kNm	3,54 kNm

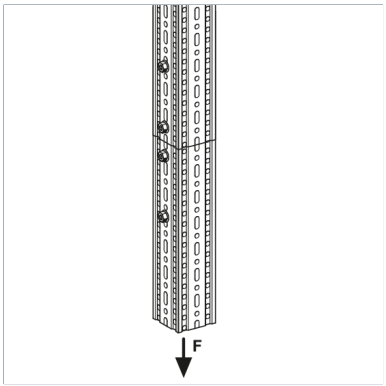
Note on loadings

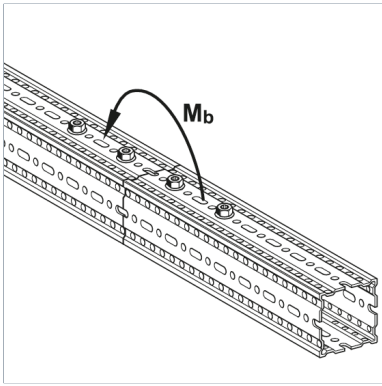
The specified load values are design loads Rd and include a partial safety factor $\gamma M2 = 1.25$ (DIN EN 1993-1-8:2025-04, Table 4.1)
A partial safety factor of $\gamma G = 1.35$ (DIN EN 1990:2021-10, Table A1.2(B)) must be taken into account for permanent loads.

Additional information

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

Profile Coupling PK F100 HCP





Types

Type	Weight	Quantity	Part number
PK-4KT F100 HCP	4,280 kg/pcs.	1 pcs.	400390
PK-8KT F100 HCP	2,320 kg/pcs.	1 pcs.	400389

Dimensions

Type	B	H	L	t
PK-4KT F100 HCP	90 mm	90 mm	442,5 mm	4 mm
PK-8KT F100 HCP	90,5 mm	90,5 mm	360 mm	3 mm

Certification