CFI.

FM Design

Double hinges for aluminium profiles

PA +130° -30°

- **Material**
  Glass-fibre reinforced polyamide based (PA) technopolymer. Resistant to solvents, oils, greases and other chemical agents. This hinge is made out of one central body and two lateral bodies.
- **Colour**
  Black, matte finish.
- **Two rotation pins**
  Nickel-plated steel.
- **Assembly**
  Through holes for M6 countersunk head screws.
- **Centering inserts**
  Technopolymer, black colour, for doweling with slots on profiles of width 8 or 10 mm.

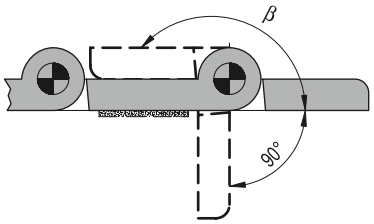
Features and applications

This type of hinge is recommended when, for example, one central jamb is connected with two lateral doors and it can be used with aluminium profiles from 30 up tp 60 mm, also combining different dimensions (for example jamb of 45 mm and doors of 30 mm).

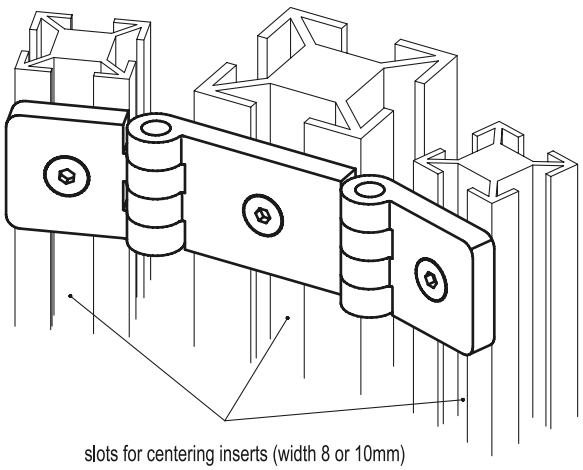
Rotation angle

Max 270°/255°, between 0° and -90° and between 0° and 180°/165° (0° = condition where the two interconnected surfaces are on the same plane).
Do not exceed the rotation angle limit (see drawing) so as not to prejudice the hinge mechanical performance.

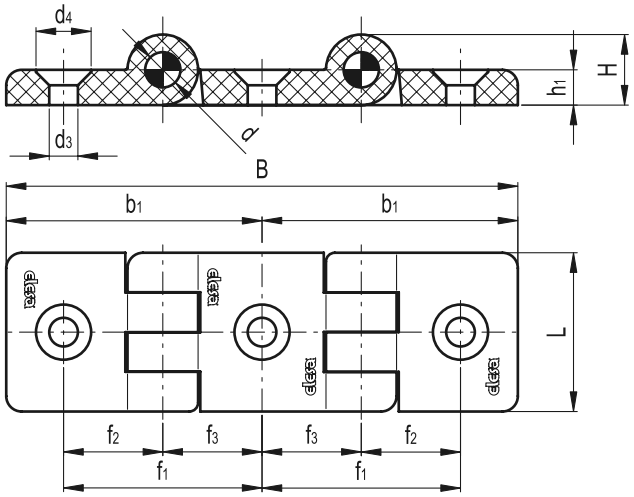
To choose the convenient type and the right number of hinges for your application, see the Guidelines (see page 792).

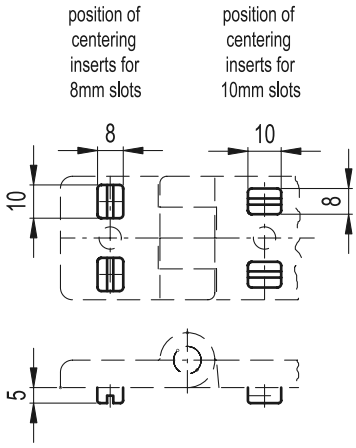


Application example

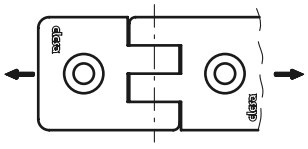


slots for centering inserts (width 8 or 10mm)

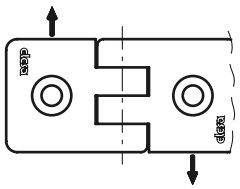




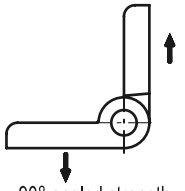
Standard Elements		Main dimensions										Fitting		⚖
Code	Description	B	L	f1 ±0.25	f2	f3	H	h1	b1	d	ß	d3	d4	g
424111	CFI.30-30/30 SH-6	89	36	35	17.5	17.5	16	8	44.5	8	180°	6.5	12.5	59
424121	CFI.30-40/40 SH-6	109	36	40	22.5	17.5	16	8	54.5	8	165°	6.5	12.5	63
424211	CFI.40-30/30 SH-6	99	36	40	17.5	22.5	16	8	49.5	8	180°	6.5	12.5	62
424221	CFI.40-40/40 SH-6	119	36	45	22.5	22.5	16	8	59.5	8	180°	6.5	12.5	66
424311	CFI.45-30/30 SH-6	104	36	42.5	17.5	25	16	8	52	8	180°	6.5	12.5	63
424321	CFI.45-40/40 SH-6	124	36	47.5	22.5	25	16	8	62	8	180°	6.5	12.5	67
424331	CFI.45-45/45 SH-6	134	36	50	25	25	16	8	67	8	180°	6.5	12.5	69
424411	CFI.60-30/30 SH-6	119	36	50	17.5	32.5	16	8	59.5	8	180°	6.5	12.5	67
424421	CFI.60-40/40 SH-6	139	36	55	22.5	32.5	16	8	69.5	8	180°	6.5	12.5	71
424431	CFI.60-45/45 SH-6	149	36	57.5	25	32.5	16	8	74.5	8	180°	6.5	12.5	73



Radial strength



Axial strength



90° angled strength

Standard Elements		RADIAL STRENGTH		AXIAL STRENGTH		90° ANGLED STRENGTH		Maximum tightening torque [Nm]
Code	Description	Maximum working load Er [N]	Load at breakage Rr [N]	Maximum working load Ea [N]	Load at breakage Ra [N]	Maximum working load E90 [N]	Load at breakage R90 [N]	
424111	CFI.30-30/30 SH-6	1850	3710	440	2570	300	1700	>5
424121	CFI.30-40/40 SH-6	1750	3490	320	2280	220	870	>5
424211	CFI.40-30/30 SH-6	1750	3490	320	2280	220	870	>5
424221	CFI.40-40/40 SH-6	1750	3490	320	2280	220	870	>5
424311	CFI.45-30/30 SH-6	1760	3520	240	2150	190	780	>5
424321	CFI.45-40/40 SH-6	1750	3490	240	2150	190	780	>5
424331	CFI.45-45/45 SH-6	1760	3520	240	2150	190	780	>5
424411	CFI.60-30/30 SH-6	1600	3190	280	1510	180	850	>5
424421	CFI.60-40/40 SH-6	1600	3190	280	1510	180	850	>5
424431	CFI.60-45/45 SH-6	1600	3190	240	1510	180	780	>5