

# CFI. | Double hinges for profiles

Technopolymer



- 1
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- 3
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- 16
- 17
- 18

## MATERIAL

Glass-fibre reinforced polyamide based (PA) technopolymer, black or grey colour RAL 7040 (C33), matte finish.

## ROTATING PINS

Nickel-plated steel.

## STANDARD EXECUTION

Pass-through holes for M6 countersunk head screws.

## TECHNOPOLYMER CENTRING INSERTS (SUPPLIED)

For profiles with slot dimensions from 6 to 12 mm.

## FEATURES AND APPLICATIONS

This type of hinge is recommended when, for example, one central frame is connected with two lateral doors. It can be used with aluminium profiles from 30 up to 60 mm, also combining different dimensions.

## ROTATION ANGLE (APPROXIMATE VALUE)

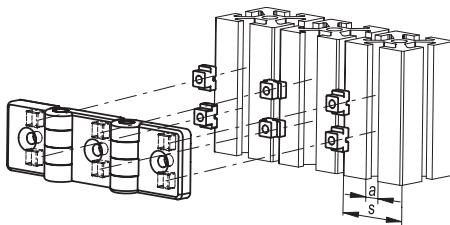
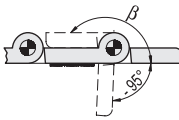
Max 260°/275° (-95° and +165°/180° being 0° the condition where the two interconnected surfaces are on the same plane).

Do not exceed the rotation angle limit 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 1448).

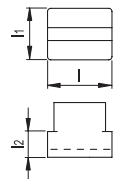


FMdesign

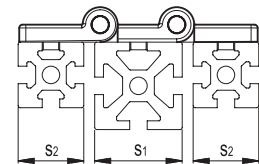
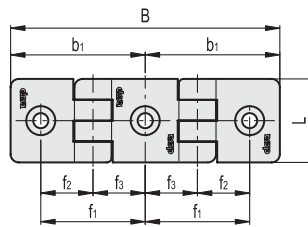
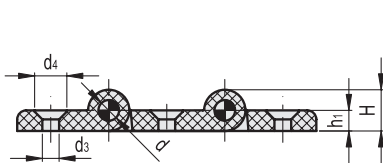


Profile dimension		Insert orientation	Insert colour
s	a		
30	6		Light grey
	8		
40÷45	8		Dark grey
	10		
50÷60	10		Black
	12		

Centring inserts			
Dimensions			Colour
l	l1	l2	
8	6	2	Light grey
10	8	4	Dark grey
12	10	5	Black



Description	AXIAL STRESS		RADIAL STRESS		90° ANGLED STRESS	
	Maximum working load Ea [N]	Load at breakage Ra [N]	Maximum working load Er [N]	Load at breakage Rr [N]	Maximum working load E90 [N]	Load at breakage R90 [N]
CFI.30-30/30 SH-6	440	2570	1850	3710	300	1700
CFI.30-40/40 SH-6	320	2280	1750	3490	220	870
CFI.40-30/30 SH-6	320	2280	1750	3490	220	870
CFI.40-40/40 SH-6	320	2280	1750	3490	220	870
CFI.45-30/30 SH-6	240	2150	1760	3520	190	780
CFI.45-40/40 SH-6	240	2150	1750	3490	190	780
CFI.45-45/45 SH-6	240	2150	1760	3520	190	780
CFI.60-30/30 SH-6	280	1510	1600	3190	180	850
CFI.60-40/40 SH-6	280	1510	1600	3190	180	850
CFI.60-45/45 SH-6	240	1510	1600	3190	180	780



Conversion Table  
1 mm = 0.039 inch

mm	inch
36	1.42

## CFI.

METRIC

Code	Description	s1	s2	L	B	f1 ±0.25	f2	f3	H	h1	b1	d	d3	d4	β	C# [Nm]	⚖
424111	CFI.30-30/30 SH-6	30	30	36	89	35	17.5	17.5	16	8	44.5	8	6.5	12.5	180°	5	59
424121	CFI.30-40/40 SH-6	30	40	36	109	40	22.5	17.5	16	8	54.5	8	6.5	12.5	165°	5	63
424211	CFI.40-30/30 SH-6	40	30	36	99	40	17.5	22.5	16	8	49.5	8	6.5	12.5	180°	5	62
424221	CFI.40-40/40 SH-6	40	40	36	119	45	22.5	22.5	16	8	59.5	8	6.5	12.5	180°	5	66
424311	CFI.45-30/30 SH-6	45	30	36	104	42.5	17.5	25	16	8	52	8	6.5	12.5	180°	5	63
424321	CFI.45-40/40 SH-6	45	40	36	124	47.5	22.5	25	16	8	62	8	6.5	12.5	180°	5	67
424331	CFI.45-45/45 SH-6	45	45	36	134	50	25	25	16	8	67	8	6.5	12.5	180°	5	69
424411	CFI.60-30/30 SH-6	60	30	36	119	50	17.5	32.5	16	8	59.5	8	6.5	12.5	180°	5	67
424421	CFI.60-40/40 SH-6	60	40	36	139	55	22.5	32.5	16	8	69.5	8	6.5	12.5	180°	5	71
424431	CFI.60-45/45 SH-6	60	45	36	149	57.5	25	32.5	16	8	74.5	8	6.5	12.5	180°	5	73

## CFI-C33

Code	Description	s1	s2	L	B	f1 ±0.25	f2	f3	H	h1	b1	d	d3	d4	β	C# [Nm]	⚖
424111-C33	CFI.30-30/30 SH-6-C33	30	30	36	89	35	17.5	17.5	16	8	44.5	8	6.5	12.5	180°	5	59
424121-C33	CFI.30-40/40 SH-6-C33	30	40	36	109	40	22.5	17.5	16	8	54.5	8	6.5	12.5	180°	5	63
424211-C33	CFI.40-30/30 SH-6-C33	40	30	36	99	40	17.5	22.5	16	8	49.5	8	6.5	12.5	180°	5	62
424221-C33	CFI.40-40/40 SH-6-C33	40	40	36	119	45	22.5	22.5	16	8	59.5	8	6.5	12.5	180°	5	66
424311-C33	CFI.45-30/30 SH-6-C33	45	30	36	104	42.5	17.5	25	16	8	52	8	6.5	12.5	180°	5	63
424321-C33	CFI.45-40/40 SH-6-C33	45	40	36	124	47.5	22.5	25	16	8	62	8	6.5	12.5	180°	5	67
424331-C33	CFI.45-45/45 SH-6-C33	45	45	36	134	50	25	25	16	8	67	8	6.5	12.5	180°	5	69
424411-C33	CFI.60-30/30 SH-6-C33	60	30	36	119	50	17.5	32.5	16	8	59.5	8	6.5	12.5	180°	5	67
424421-C33	CFI.60-40/40 SH-6-C33	60	40	36	139	55	22.5	32.5	16	8	69.5	8	6.5	12.5	180°	5	71
424431-C33	CFI.60-45/45 SH-6-C33	60	45	36	149	57.5	25	32.5	16	8	74.5	8	6.5	12.5	180°	5	73

# Suggested tightening torque for assembly screws.