

Concealed hinge

SUPER-technopolymer

MATERIAL

Glass-fibre reinforced polyamide based (PA) SUPER-technopolymer, black colour, matte finish.

ROTATING PIN

AISI 304 stainless steel.

STANDARD EXECUTIONS

Pass-through holes for mounting using studs with nuts, or cylinder head screws with washer UNI 6592.

FEATURES AND APPLICATIONS

Hinge to be used with doors and frames of boxed structures in folded sheet metal.

Rings can be applied to the door and frame to prevent the entry of dust and foreign bodies.

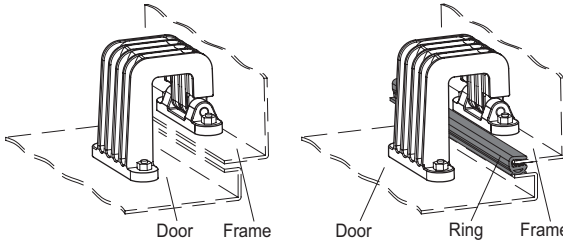
ROTATION ANGLE (APPROXIMATE VALUE)

Max 180° (-90° and +90° 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.

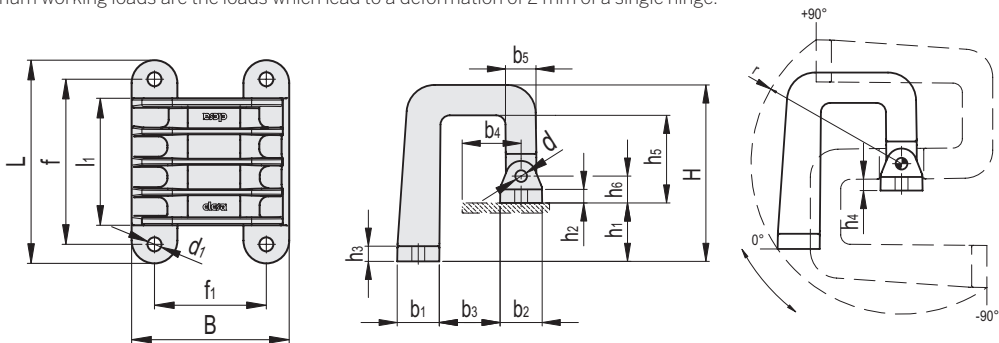


ELESA Original design



Resistance tests											
Axial Stress (0°)		Axial Stress (-90°)		Axial Stress (+90°)		Radial Stress (0°)		Radial Stress (-90°)		Radial Stress (+90°)	
Maximum working load Ea [N]	Load at breakage Ra [N]	Maximum working load Ea [N]	Load at breakage Ra [N]	Maximum working load Ea [N]	Load at breakage Ra [N]	Maximum working load Er [N]	Load at breakage Rr [N]	Maximum working load Er [N]	Load at breakage Rr [N]	Maximum working load Er [N]	Load at breakage Rr [N]
390	1350	375	1110	310	1340	370	1170	390	1330	490	1280

The maximum working loads are the loads which lead to a deformation of 2 mm of a single hinge.



Code	Description	L	B	d1	h2	l1	f±0.4	f1±0.4	H	h1	h3	h4	h5	h6	b1	b2	b3	b4	b5	r	d	C#	[Nm]
428001	CHG.80 CH-5	80	62	5.5	6.5	49.5	65	44	76	25	6.5	4	38	12	18	18	26	24	13	65	6	5	115

Suggested tightening torque for assembly screws.