

The Ω FLAT bar support is a **UNIVERSAL, QUICK and CONVENIENT** solution for supporting bars, copper or aluminium, in a flat configuration.


It is mainly made of two elements:

- 1) supporting and fastening profile
- 2) set of blocks and screws to tighten the bars

The Ω FLAT bar support can also be used as a support system for flexible insulated bars COFLEX and J-LINK.

### TECHNICAL CHARACTERISTICS

#### Universal

- Distance between stages predefined according to the width of the bars or adjustable at installation
- Rigid bar thickness 4 to 10 mm
- Flexible bar (COFLEX) up to 6 laminates of 1 mm
- Flexible shunts (J-LINK) up to 85mm<sup>2</sup>
- High resistance to short-circuit
- Air distance between two phases:  
20 mm with "T" blocks  
40 mm with "L" blocks ", incrementable by spacing the blocks
- Max. working temperature : +140 °C 

#### Insulating blocks:

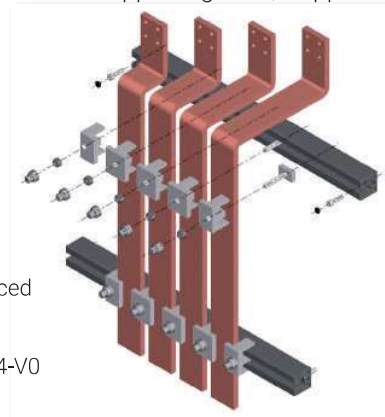
In 6.6 polyamide reinforced with 30% fiberglass  
Color: black  
Self-extinguishing: UL 94-V0  
Halogen free

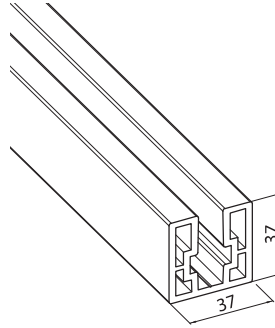
#### Support Profile:

Made in extruded PVC  
Self-extinguishing: UL 94-V0  
Color: black

#### Certifications:

Compliant with standard IEC 61439-2  
CERTIFICATE ACAE-LOVAG





### TECHNICAL CHARACTERISTICS

**Material:** extruded PVC  
**Color:** black  
**Self-extinguishing:** UL 94-V0  
**Length:** 2 m

One single code for all configurations. Quick fitting to the panel board structure by means of hex socket head cap screws M6x25, to be used after punching the bottom guiding profile.

**Maximum working temperature:** +80 °C

### SUPPORT PROFILE

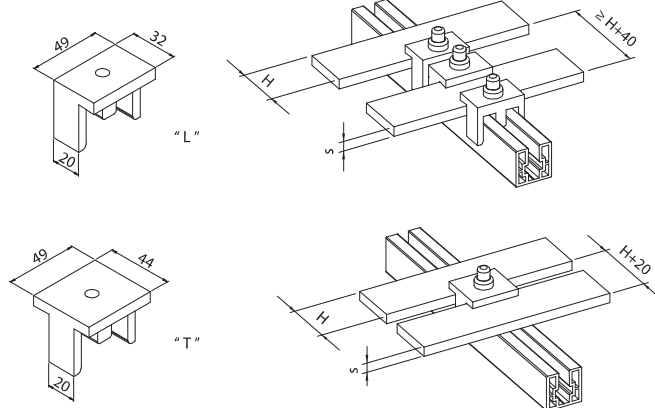
Code	Reference		Weight (kg)
FLT1000	FLT PR 2000	2	1.90



### TECHNICAL CHARACTERISTICS

**Material:** Polyamide 6.6 reinforced with 30% fiberglass  
**Color:** black  
**Self-extinguishing:** UL 94-V0  
 Halogen free

**Maximum working temperature:** +140 °C



### INSULATING BLOCKS AND SCREWS

Code	Reference		Phases	No. blocks "L"	No. blocks "T"	s min-max (mm)	H* min-max (mm)	Spacing between the phases (mm)
FLT1015	FLT LT-T	1	T	2	2	4-10	30-100	H + 20
FLT1020	FLT LT-TN	1	T+N	2	3			H + 20
FLT1025	FLT LL-T	1	T	6	-			≥ H + 40
FLT1030	FLT LL-TN	1	T+N	8	-			≥ H + 40

\* H = bar width

The set consists of insulating blocks, hammer head screws M8x45, hexagonal nuts M8 and insulating nut caps. complete with hex socket head cap screws M6x25 to fasten profile FLT1000 and plastic caps to insulate the head screws M6x25.

#### Example:

to make a bar support configuration  
 3-pole + Neutral (Phases=T+N) at **MINIMUM** distance between phases (=H+20 mm)

**Select:** PVC profile Length. 2 meters **FLT1000**  
 Insulating Blocks and Screws **FLT1020**

### Distance between supports depending on I<sub>cc</sub> (short-circuit current)

I<sub>cc</sub> pk = Short-circuit current peak value expressed in kA

I<sub>cc</sub> rms = Effective value of short-circuit current, duration equal to 1 second, expressed in kA

### CONFIGURATIONS USING FLT1015 - FLT1020

I <sub>cc</sub> pk (kA)		53						74						84					
I <sub>cc</sub> rms (kA)		25						35						40					
Spacing between the phases (mm)		50	60	70	80	100	120	50	60	70	80	100	120	50	60	70	80	100	120
BAR WIDTH H (mm)	30	<b>240</b>	-	-	-	-	-	<b>120</b>	-	-	-	-	-	<b>95</b>	-	-	-	-	-
	40	-	<b>290</b>	-	-	-	-	-	<b>150</b>	-	-	-	-	-	<b>115</b>	-	-	-	-
	50	-	-	<b>335</b>	-	-	-	-	-	<b>170</b>	-	-	-	-	-	<b>135</b>	-	-	-
	60	-	-	-	<b>385</b>	-	-	-	-	-	<b>195</b>	-	-	-	-	-	<b>150</b>	-	-
	80	-	-	-	-	<b>480</b>	-	-	-	-	-	<b>245</b>	-	-	-	-	-	<b>190</b>	-
	100	-	-	-	-	-	<b>575</b>	-	-	-	-	-	<b>295</b>	-	-	-	-	-	<b>230</b>

### CONFIGURATIONS USING FLT1025 - FLT1030

I <sub>cc</sub> pk (kA)		53								74								84							
I <sub>cc</sub> rms (kA)		25								35								40							
Spacing between the phases (mm)		70	80	90	100	120	140	160	70	80	90	100	120	140	160	70	80	90	100	120	140	160			
BAR WIDTH H (mm)	30	<b>335</b>	385	430	480	575	675	770	<b>170</b>	195	220	245	295	345	390	<b>135</b>	150	170	190	230	265	305			
	40	-	<b>385</b>	430	480	575	675	770	-	<b>195</b>	220	245	295	345	390	-	<b>150</b>	170	190	230	265	305			
	50	-	-	<b>430</b>	480	575	675	770	-	-	<b>220</b>	245	295	345	390	-	-	<b>170</b>	190	230	265	305			
	60	-	-	-	<b>480</b>	575	675	770	-	-	-	<b>245</b>	295	345	390	-	-	-	<b>190</b>	230	265	305			
	80	-	-	-	-	<b>575</b>	675	770	-	-	-	-	<b>295</b>	345	390	-	-	-	-	<b>230</b>	265	305			
	100	-	-	-	-	-	<b>675</b>	770	-	-	-	-	-	<b>345</b>	390	-	-	-	-	-	<b>265</b>	305			

#### NOTE:

- = not possible configuration

Values marked in bold refer to the MINIMUM spacing between phases

For configurations other than the indicated ones: please contact our technical office