



Copper

Product format:

Flat copper bars (Flexicobre)

Technical characteristics:

Acceptable intensity depending on bar heating in ambient temperatures of 35°C



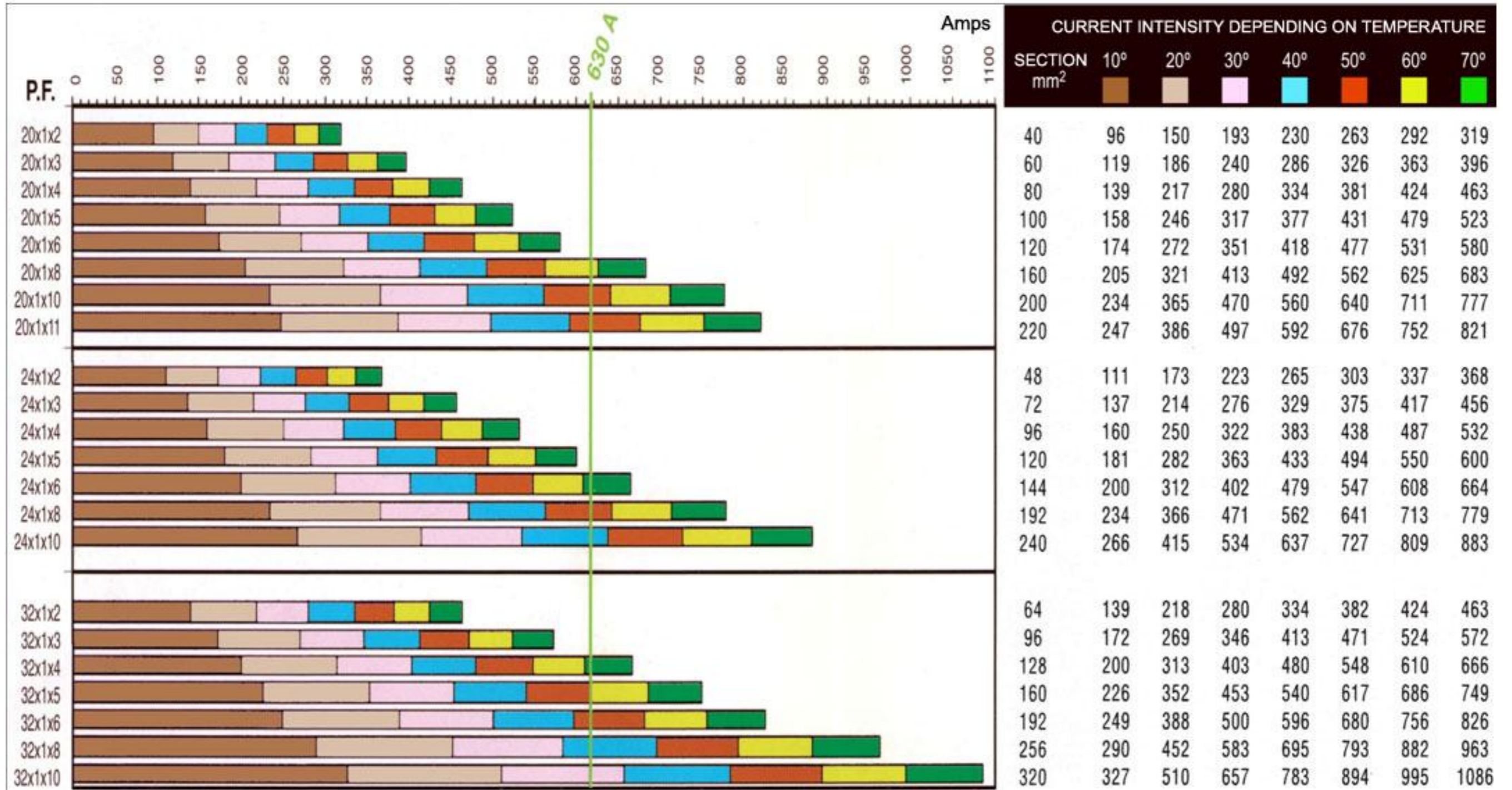
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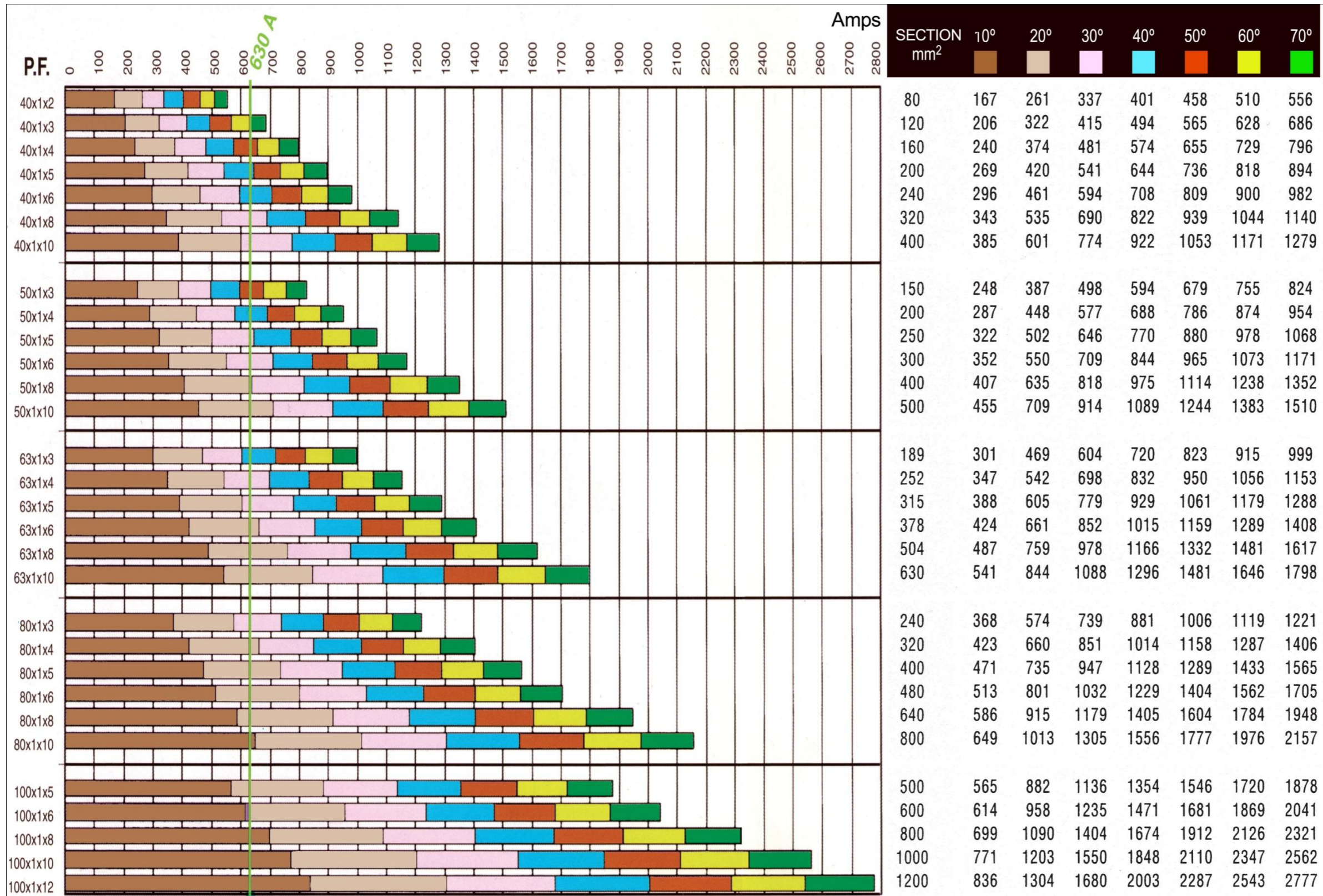
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CONCEPT AND DESIGN

Flexible flat bars in the FLEXICOBRE range are made from assembling copper strips (Cu-ETP), sheathed with extruded PVC (9 mm to 50 mm thick)* which guarantees the product's dielectric insulation despite bending or whatever condition the busbars are used in. (Humidity, temperature or aggressive environments).

- for a width of 63-80 and 100 mm: heat-sealed case.

THE RANGE

Standard lengths: 2000 mm and 3000 mm.

Sheet thickness 1 mm.

Number of sheets between 2 and 12.

OPTIONAL:

- Tin-plated copper and aluminium
- Connectors with flexible parts.
- Halogen-free PVC insulation.
- High-temperature PVC insulation up to 125 °C

Other sizes upon request.

APPLICATIONS

- To be used to convey power instead of: dry cables, sets of rigid busbars.
- Electrical appliances. (cabinets, circuit breakers, undulators).
- Transformers (connection between the busbar case and the transformer).

ADVANTAGES

The only electrical system that integrates all functionalities: shaping, connecting, conductor sheathing, insulated bracket integration. Highly reduced installation costs and simpler management.

TECHNICAL FEATURES

PVC insulation (from 9 mm to 50 mm)

Density:	1.31 NFT 51-063	Thermal conductivity:	3 to 4 10 ⁻⁴ cal/s/cm ⁰ C
Shore hardness:	85 A NFT 51-109	Dielectric rigidity:	20 KV/mm (dry)
Breaking strength:	19.6 MPa NFT 51-034	Fire behaviour:	FV 0 ep rating: 2 mm UL94V0
Breaking elongation	365% NFT 51-034	Recyclable:	Yes

FLEXIBLE ITEM

Maximum service power rating: 1000 Volts.

Service temperature: - 40° C to + 105 °C

Average extruded PVC thickness: 2.01 mm

Dielectric rigidity: Average 20 KV/mm according to NF C 32-201-1 (in water)

Fire behaviour: Approved to NF C 32-070 C2

NAME

Sheet width (in mm)

X sheet thickness

X number of sheets

SELECTION PRINCIPLE

The attached graph allows you to select the best flexible flat bar depending on the following input parameters:

- Ambient temperature of 35°C set for the abacus.
- Intensity in amps.
- Maximum acceptable temperature rise.

